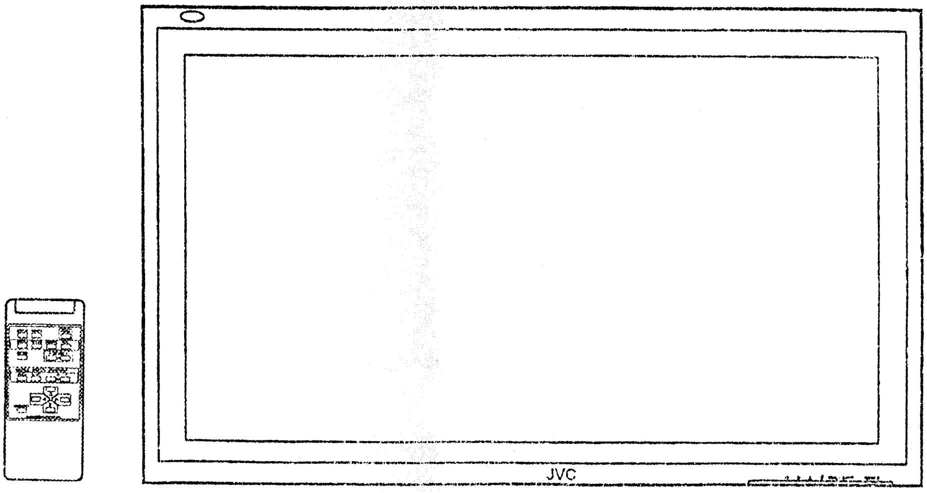
JVC

SERVICE MANUAL

42" PLASMA DISPLAY MONITOR

BASIC CHASSIS
P1

GD-V4200PZW
GD-V4200PZW-G



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No.51566
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SPECIFICATIONS

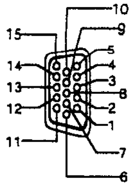
Item		Content
Dimension		103.5cm (40-3/4") × 64.0cm (25-1/4") ×8.9cm (3-5/8") (W×H×D)
Mass		36.0kg (79.2lbs)
Type		Plasma display
Compatible system		Video A,B input : NTSC, PAL, SECAM Component input : 480I, 576I, 480p, 720p,1080i
Power requirements		120V / 230VAC,50/60Hz
Power Consumption		390W(TYP)(10W in stand by mode)
Effective screen dimensions		Horizontal 92.1cm×Vertical 51.8cm×Diagonal 105.7cm
Nmber of pixele		Horizontal 853×Vertical 480
Pixel pitch		Horizontal 1.08mm× Vertical 1.08mm
Cell pitch		Horizontal 0.36mm× Vertical 1.08mm
Dispiay colours		16.77million colours (RGBeach 256 hues)
Contrast ratio		More than 500:1
Audio power output		3W+3W Two internal speakers (4×7cm oval, impedance of 8Ω)
Input/output terminals	**VIDEO A**	· Y/Cinput : Y/Cterminal×1、 Y: 1V(p-p)/75Ω C: 0.286V(p-p)/75Ω(NTSC) C: 0.3V(p-p)/75Ω(PAL/SECAM) · Video input : BNCterminal×1、 1V(p-p)/75Ω · Video output : BNCterminal×1、 1V(p-p)/75Ω · Audio input : Pin jack terminal×2(L/R)、 500mVrms/22kΩ or over
	VIDEO B	· Y/Cinput : Y/Cterminal×1、 Y : 1V(p-p)/75Ω C : 0.286V(p-p)/75Ω(NTSC) C : 0.3V(p-p)/75Ω(PAL/SECAM) · Video input : BNCterminal×1、 1V(p-p)/75Ω · Video output : Pin jack terminal×1、 1V(p-p)/75Ω · Audio input : Pin jack terminal×2(L/R)、 500mVrms/22kΩ or over
	COMP.Input	BNCterminal×3 Y : 1V(p-p)/75Ω PB/B-Y : 0.7V(p-p)/75Ω PR/R-Y : 0.7V(p-p)/75Ω
	RGBinput	· D-sub3line15-pin terminal×1 : Video signal : 0.7V(p-p)/75Ω : Sync signal : TTL level or0.3V(p-p)/75Ω · Audio input : Pin jack terminal×2(L/R)、 500mVrms/22kΩ or over
RS232C input		D-sub9-pin terminal×1
SPEAKER OUT terminal		Impedance 6Ω～16Ω
Scanning		Video mode Horizontal 15.625kHz(PAL/SECAM)、 15.734KHz(NTSC) Vertical 50Hz(PAL/SECAM), 59.94KHz(NTSC) Component video mode See next page Analogue RGB mode Horizontal 15kHz～56kHz、 Vertical50～75Hz
Environment		Temperature : 0～40℃ Relative humidity : 35～85% (non-condensing)
Storage		Temperature : -20～50℃ Relative humidity : 0～90%(non-condensing)
Accessories		Remote control unit×1(RM-C575) AA/R6-size dry cell battery×2(for operation check) Remote control cable×1 / Power cord(approx 2.5m)×3

Design and specification are subject to change without notice.

■Pin assignment (Specifications for terminals)

PC Input terminal

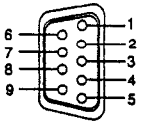
This terminal is connected to the moniter (Analogue RGB) out put terminal of a PC



Pin No	Signal name	Pin No	Signal name
1	Red	9	N/C
2	Green	10	GND
3	Blue	11	N/C
4	N/C	12	N/C
5	GND	13	H.SYNC
6	GND	14	V.SYNC
7	GND	15	N/C
8	GND	External	GND

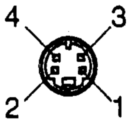
RS 232C terminal

This terminal is connected to the RS-232C terminal of a PC.



Pin No	Signal name
1	DCD (Data Carrier Detect)
2	RD (Receive Data)
3	TD (Transmit Data)
4	DTR (Data Terminal Ready)
5	GND (Ground)
6	DSR (Data Set Ready)
7	RTS (Request To Send)
8	CTS (Clear To Send)
9	RI (Ring Indication)

Y/C Input terminal



Pin No	Signal name
1	GND (Y)
2	GND (C)
3	Y
4	C

● Component Video mode

Divide	Item	Input picture format							
		Standard	Frequency			Total pixel		Visible area pixel	
			Vert.	Hori.	Dot clock	Hori.	Vert.	Hori.	Vert.
			fVi	fHi	fci	Hi	Vi	Hai	Vai
			Hz	kHz	MHz	pixel/line	line/frame	pixel/line	line/frame
COMPONENT	480i	ITU-R BT601-4 (CCIR Rec.601)	59.94	15.734	13.50	858	525	720	485
	576i	ITU-R BT601-4 (CCIR Rec.601)	50.00	15.625	13.50	864	625	720	575
	480p	SMPTE 293M	59.94	31.468	27.00	858	525	720	483
	720p	SMPTE 296M	60.00	45.000	74.25	1650	750	1280	720
	1080i	SMPTE 274M	60.00	33.750	74.25	2200	562.5	1920	540
	1035i	BTA S-001A	60.00	33.750	74.25	2200	562.5	1920	517.5

SAFETY PRECAUTIONS

1. The design of this product contains special hardware, many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.

2. Alterations of the design or circuitry of the products should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.

3. Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of Service manual. **Electrical components having such features are identified by shading on the schematics and by (⚠) on the parts list in Service manual.** The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of Service manual may cause shock, fire, or other hazards.

4. **Don't short between the LIVE side ground and ISOLATED (NEUTRAL) side ground or EARTH side ground when repairing.**
   Some model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : (⊥) side GND, the ISOLATED(NEUTRAL) : (⊥) side GND and EARTH : (⊕) side GND. Don't short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or EARTH side GND and never measure with a measuring apparatus (oscilloscope etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND or EARTH side GND at the same time.
   If above note will not be kept, a fuse or any parts will be broken.

5. If any repair has been made to the chassis, it is recommended that the B1 setting should be checked or adjusted (See ADJUSTMENT OF B1 POWER SUPPLY).

6. The high voltage applied to the picture tube must conform with that specified in Service manual. Excessive high voltage can cause an increase in X-Ray emission, arcing and possible component damage, therefore operation under excessive high voltage conditions should be kept to a minimum, or should be prevented. If severe arcing occurs, remove the AC power immediately and determine the cause by visual inspection (incorrect installation, cracked or melted high voltage harness, poor soldering, etc.). To maintain the proper minimum level of soft X-Ray emission, components in the high voltage circuitry including the picture tube must be the exact replacements or alternatives approved by the manufacturer of the complete product.

7. Do not check high voltage by drawing an arc. Use a high voltage meter or a high voltage probe with a VTVM. Discharge the picture tube before attempting meter connection, by connecting a clip lead to the ground frame and connecting the other end of the lead through a 10kΩ 2W resistor to the anode button.

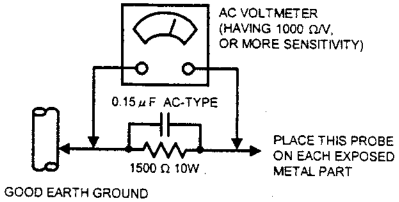
8. When service is required, observe the original lead dress. Extra precaution should be given to assure correct lead dress in the high voltage circuit area. Where a short circuit has occurred, those components that indicate evidence of overheating should be replaced. Always use the manufacturer's replacement components.

9. **Isolation Check**
   (Safety for Electrical Shock Hazard)
   After re-assembling the product, always perform an isolation check on the exposed metal parts of the cabinet (antenna terminals, video/audio input and output terminals, Control knobs, metal cabinet, screwheads, earphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

(1) **Dielectric Strength Test**
The isolation between the AC primary circuit and all metal parts exposed to the user, particularly any exposed metal part having a return path to the chassis should withstand a voltage of 3000V AC (r.m.s.) for a period of one second.
(. . . . Withstand a voltage of 1100V AC (r.m.s.) to an appliance rated up to 120V, and 3000V AC (r.m.s.) to an appliance rated 200V or more, for a period of one second.)
This method of test requires a test equipment not generally found in the service trade.

(2) **Leakage Current Check**
Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground (water pipe, etc.). Any leakage current must not exceed 0.5mA AC (r.m.s.).
However, in tropical area, this must not exceed 0.2mA AC (r.m.s.).

● Alternate Check Method
Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Use an AC voltmeter having 1000 ohms per volt or more sensitivity in the following manner. Connect a 1500Ω 10W resistor paralleled by a 0.15μF AC-type capacitor between an exposed metal part and a known good earth ground (water pipe, etc.). Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75V AC (r.m.s.). This corresponds to 0.5mA AC (r.m.s.).
However, in tropical area, this must not exceed 0.3V AC (r.m.s.). This corresponds to 0.2mA AC (r.m.s.).



PDP (PLASMADISPLAYPANEL) DESCRIPTION

- Although a PDP is made with highly advanced precision, this does not necessarily mean all of the cells operate correctly. The PDP inevitably includes cell that do not light or light constantly.
  If the specifications (PDP performance) are unclear at the time of shipment, an adequate description cannot be conveyed to the customer.
  In event of inquiries from customers regarding PDP performance, check the following specifications in order to offer a suitable reply.
- **Cell arrangement**
  The PDP is constructed of front and rear glass substrates provided with respective discharge electrodes. Between these, neon for discharging and xenon for generating ultraviolet rays are enclosed.
  One picture element (pixel) is composed of Red, Green and Blue (RGB) cells. The cell pitch is 0.36 mm horizontal (1.08 mm per pixel) by 1.08mm vertical.

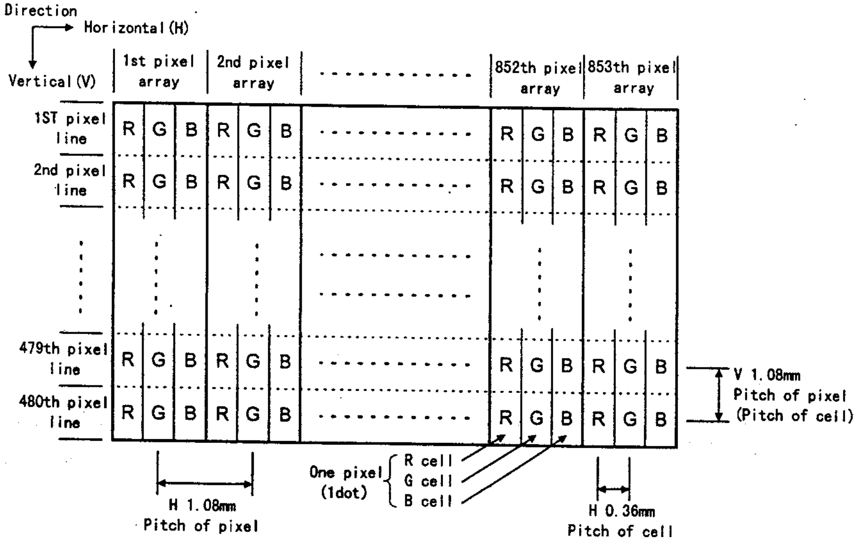

Direction
Horizontal (H)
Vertical (V)
1st pixel array
2nd pixel array
852th pixel array
853th pixel array
1ST pixel line
2nd pixel line
479th pixel line
480th pixel line
R G B R G B
R G B R G B
V 1.08mm
Pitch of pixel
(Pitch of cell)
One pixel (1dot)
R cell
G cell
B cell
H 1.08mm
Pitch of pixel
H 0.36mm
Pitch of cell

Fig. 1

As shown in Fig. 1, the cells are arranged for each R／G／B color. A pixel consists of each cell of R/G/B/ color. The size of a cell is 0.36mm horizontally and 1.08mm vertically.

- Pixel fault
  There are two pixel faults - bright fault and dark fault - that are respectively defined as follows.

(1) Bright fault
In this pixel fault, a cell that should not light originally is lighting or flashing on and off.
For checking this pixel fault, input ALL BLACK SCREEN and find out the cell that is lighting or flashing on and off.

(2) Dark fault
In this pixel fault, a cell that should light originally is not lighting or not flashing on and off or lighting with the brightness twice as brighter as originally lighting.
For checking this pixel fault, input 100% of each RGB color and find out the cell that is not lighting or not flashing on and off or lighting with the brightness as brighter as originally lighting.

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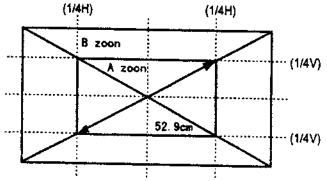
(3) Pixel fault

	Screen display	Criteria for number of faulted cell	Criteria for number of consecutive faulted cell
Bright fault	All black screen	A zone: less than 1 in each color B zone: less than 2 in each color	Less than2 consecutively
Dark fault	Red level 100% on entire screen	A zone: less than 2 in each color B zone: less than 6 in each color	Less than2 consecutively
	Green level 100% on entire screen		
	Blue level 100% on entire screen		

(Note) A-zone: Center portion (area enclosed by 1/4 vertically from the top and bottom and 1/4 horizontally from the right and left sides.)
B-zone: Other area


(1/4H)
(1/4H)
B zoon
A zoon
52. 9cm
(1/4V)
(1/4V)

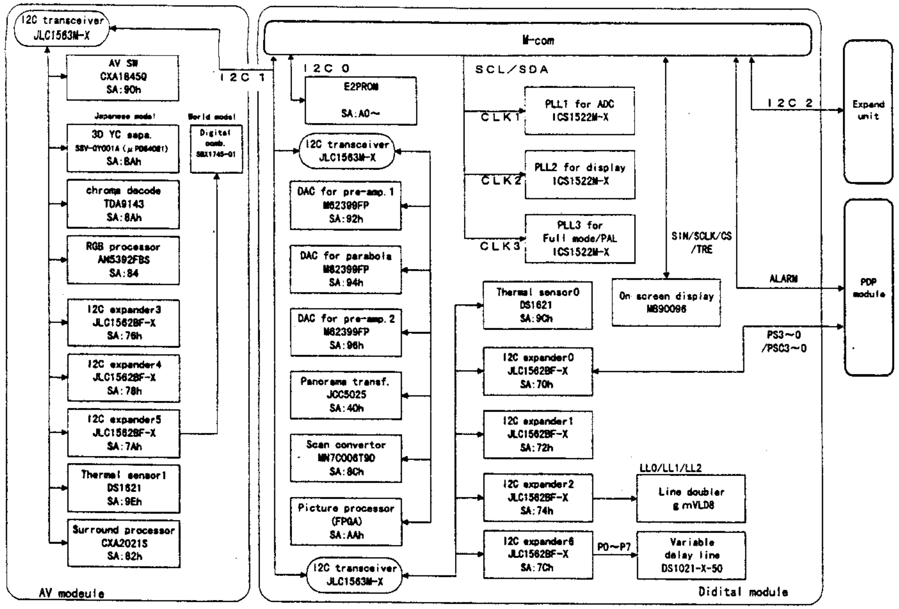
(Note) The consecutive pixel fault that are diagonically or intensively generated shall be interpreted as follows:

●○○
○●○
○○● → consecutive 3

●○
●● → consecutive 3

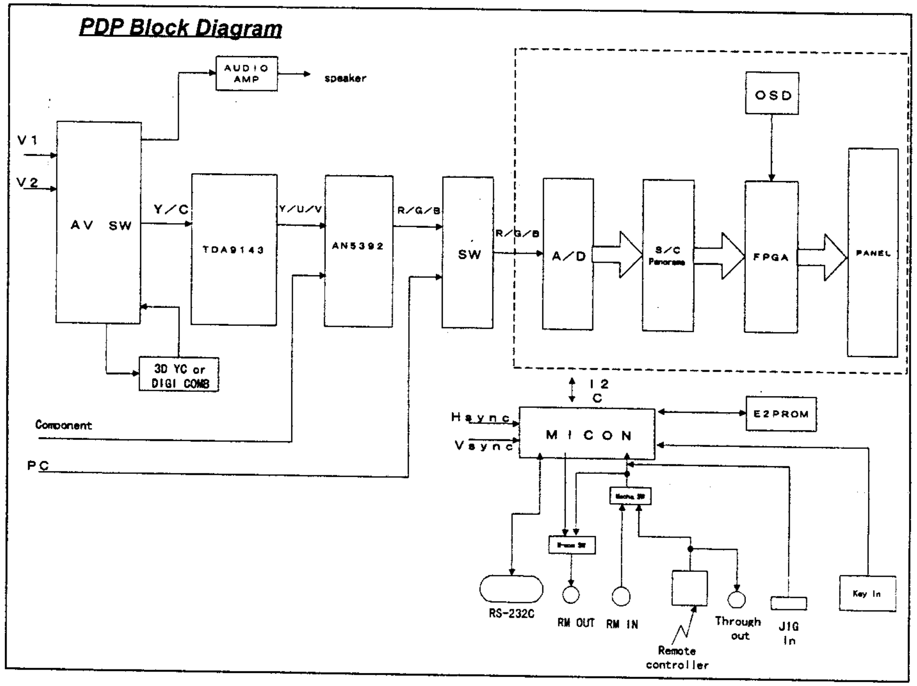
●●
●● → consecutive 4

Structure around M-com


I2C transceiver JLC1563M-X
AV SW CXA1845Q SA:90h
I2C 1
Japanese model
World model
3D YC sepa. SSV-0Y001A (μPD64081) SA:BAh
Digital comb. SBX1745-01
chroma decode TDA9143 SA:8Ah
RGB processor AN5392FBS SA:84
I2C expander3 JLC1562BF-X SA:76h
I2C expander4 JLC1562BF-X SA:78h
I2C expander5 JLC1562BF-X SA:7Ah
Thermal sensor1 DS1621 SA:9Eh
Surround processor CXA2021S SA:82h
AV modeule
M-com
I2C 0
E2PROM SA:A0~
I2C transceiver JLC1563M-X
DAC for pre-amp.1 M62399FP SA:92h
DAC for parabola M62399FP SA:94h
DAC for pre-amp.2 M62399FP SA:96h
Panorama transf. JCC5025 SA:40h
Scan convertor MN7C006T90 SA:8Ch
Picture processor (FPGA) SA:AAh
I2C transceiver JLC1563M-X
SCL/SDA
CLK1
PLL1 for ADC ICS1522M-X
CLK2
PLL2 for display ICS1522M-X
CLK3
PLL3 for Full mode/PAL ICS1522M-X
SIN/SCLK/CS /TRE
On screen display M890096
Thermal sensor0 DS1621 SA:9Ch
I2C expander0 JLC1562BF-X SA:70h
I2C expander1 JLC1562BF-X SA:72h
I2C expander2 JLC1562BF-X SA:74h
LL0/LL1/LL2
Line doubler gmVLD8
I2C expander6 JLC1562BF-X SA:7Ch
P0~P7
Variable delay line DS1021-X-50
Didital module
I2C 2
Expand unit
ALARM
PDP module
PS3~0 /PSC3~0

Structure around M-com

System block diagram


PDP Block Diagram
AUDIO AMP
speaker
V1
V2
AV SW
Y/C
TDA9143
Y/U/V
AN5392
R/G/B
SW
R/G/B
A/D
S/C Panorama
OSD
FPGA
PANEL
3D YC or DIGI COMB
Component
PC
I2C
Hsync
Vsync
MICON
E2PROM
RS-232C
RM OUT
RM IN
Remote controller
Through out
JIG In
Key In

Self check

- Self check LEDs are located on the upper-left side of the set. LEDs are not screen from outside when they are turned off.
- There is no light out LED when detected abnormal condition. All 3 LEDs are lighting or flashing.

Detected items	LED			Priority
	upper	center	lower	
E2PROM communication error	O	☆	☆	1
Panel alarm	☆	O	O	2
High temperature	☆	O	☆	3
Fan stop	☆	☆	O	4
Flash write abnormality	☆	☆	☆	5

Note:
- displayed color: green
- flashing interval: 0.25s ON, 0.25s OFF
- LEDs indicate just 1 detected item that has priority even detected more than 2 items to avoid any confusion.
- All LEDs are lighting when Flash memory writing.

☆: Flashing LED / O: Lighting LED

PRECAUTIONS FOR USE

1. Safety precaution for PDP operation

(1) Do not prevent the radiation of heat from back, top and flank sides of a PDP. (Refer to "5. Requirements for setting".)
Preventing the radiation of heat from each side causes high temperature within a PDP and may damage the inner circuit.

(2) Install a PDP in a place where is well ventilated.
Ambient temperature should be within a range of 0~40° C.

(3) Actions when the picture disappeared on the screen
When the temperature inside of a PDP became high due to stoppage of the inside fan, the detection circuit for suspension of fan operation starts to function and turns the power OFF automatically. In this case, unplug the power code immediately.

* Refer to "Self check" portion for detail.

2. Retained-Image and burning

When the same pattern is displayed continuously for many hours, the burning of the screen is occurred in the same manner as for a CRT. This will shorten the service life of a PDP. In order to avoid the burning of the screen, turn the display off when not necessary. Also take such other measures as scrolling the screen and using a screen saver. In addition, periodically display the brightness reversal, the reversal to the complementary color or the insertion of animated image - all these will make the display on the screen uniform. Since the higher brightness may cause the burning, users are requested to use neutral colors as much as possible. Animated image will not cause the burning.

When the screen is switched after continuous display, the retained-image may be significant because the brightness of a certain portion becomes higher than that of other portions. This is caused by a phenomenon in which a surface electrical discharge of the lighted portion is more activated than the non-lighted portions, resulting in higher brightness.

3. Infrared rays

Because the near infrared rays (800~1000mm) radiate from the panel face, the neighboring infrared ray remote controllers, infrared communication systems, etc. may malfunction. In these cases, take a measure to prevent the trouble to be caused by direct rays (or reflected rays) from the screen by changing the direction of the screen face or keeping a safe distance between a PDP and other devices.

4. Matters that require attention when placing a plasma display upright

When a plasma display panel is placed upright, it is necessary to make the following setting.

- **[Caution]**

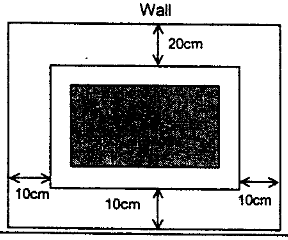
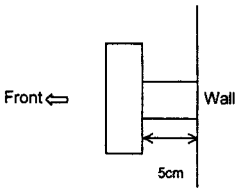
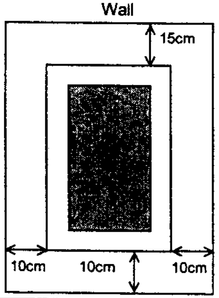
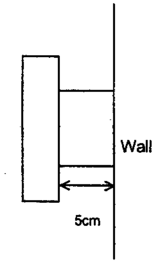
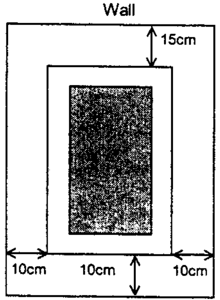
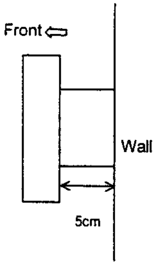
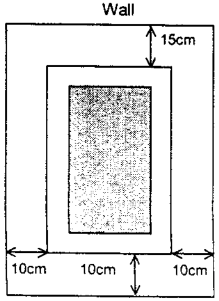
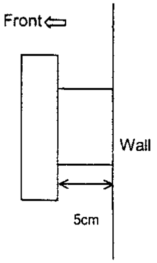
This setting changes the pre-set values at the shipment from the factory. Any fault in operation and intentional data change may result in permanent disappearance of the picture on the screen and/or damages of a PDP set. Therefore, extreme care must be taken when making this setting.

- **[Setting procedure]**

(3) Enter to SERVICE MODE.
(4) Select CPU BLOCK.
(5) Check the value of C(F04). Then set the new value to -15 from the pre-set value.
Example : When the pre-set value is 33, the new value should be 18 (33−15 = 18).
The C (F04) is a setting to set up the values for cooling fan. When a plasma display panel is placed upright, the new setting is necessary so as to increase cooling efficiency.

5. Requirements for setting

The following minimum space must be kept when a PDP is installed. (The recommended distance should be from the most projected portion when a PDP is inclined.)

Methods of Installation	Front	Flank	Remarks
① **Hanging from a wall [Horigontil]**			· An exclusive fixture (option) should be used. · The structure and strength of the wall where a PDP is installed should be checked beforehand so as to install the PDP safely without any accident.
② **Hanging from a wall [Vertical]**			· It is necessary to set the fan rotation when install "Vertically". Refer to Precautions for use section 4.
③ **Suspension from a ceiling**			
④ **Disktop**			· A PDP should be installed on a rigid floor or stand. · In order to prevent a PDP from turning over by an accident or earthquake, safety measures should be considered.

6. Optical filter (Front filter)

(1) Don't expose the optical filter directly to the sun for a long period of time.

Exposing directly to the sun for a long period of time may change the special property of the optical filter, resulting in a change of color.

(2) Don't wipe the optical filter with solvents such as benzene, thinner, etc.

Wiping the optical filter with solvents such as benzene, thinner, etc. may cause change in quality and peel off the coasting on the surface.

Lightly wipe the optical filter with a soft cloth with less fluffy (e.g. pure flannel).

Because the surface of the optical filter is fragile, don't scrub or hit it with a hard material.

7. Other precautions

(1) Brightness change in the screen

In order to save the power consumption, the power is controlled (with APS function) depending on the brightness of the screen. For this, the brightness may change after a short time when the picture of the screen is changed. However, this phenomenon is not a trouble.

■Precaution during transportation

- When a PDP set is delivered, the PDP body inside of the box will be subject to constant of gravitation under the rough handling (throwing, dropping, etc.) even though a rigid box is used.
  In such a case, the PDP may be damaged during transportation. In order to avoid an accident during transportation, care must be taken to select a reliable carrier. Once a reliable carrier is selected, advise them how to handle a PDP properly during transportation. In addition, a PDP should be insured for its physical damage before shipment.
  This product is fragile because glass is widely used. Thus the following requirements for transportation should be observed.

(1) Don't apply vibration and impact.

The glass of a PDP may be broken when the package is brought down on its side. When carrying the package, it must always be handled with two persons with due care not to apply vibration and impact on the package.

(2) Don't lay a PDP on its side.

A PDP should always be placed upright during both transportation and safekeeping. Don't lay it on its side. The panel of a PDI is very fragile to the impact in the horizontal direction.

When a car carries a PDI, load it on board the car in parallel with the moving direction of the car. Don't lay several PDPs one on top another.

During safekeeping, don't lay more than two PDPs one on top another even if they are kept upright.

■Precaution during changing of armor parts (rear cover, front panel and optical (front) filter)

- Extreme care must be exercised for a PDP when the armor parts are changed. To drop a PDP is out of question. Special attention should be paid not to apply pressure on the glass surface during the work. Don't touch the panel surface in any way.
  When changing the armor parts (rear cover, front panel and optical (front) filter), place the panel (PDP side) upside down in principle. At this time, a suitable mat must be used so as to prevent the front side from damaging. However, excessively soft material (e.g. blanket) should not be used for this purpose in any way. If a blanket is used, the surface of a PDP is pressurized by the blanket when placing the panel upside down. Under such a condition, the PDP may be broken during the work.

SPECIFIC SERVICE INSTRUCTIONS

DISASSEMBLY PROCEDURE

Removing the Rear Cover

1. Remove screws marked **(a)** as shown in Fig. 1 at 19 locations.
2. Remove the rear cover.

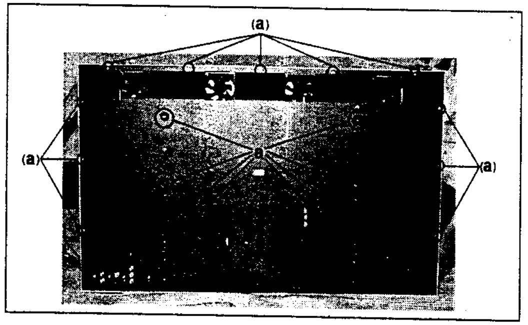


Fig. 1

Removing the Circuit Layer Flame

1. Remove screws marked **(b)** as shown in Fig. 2 at 16 locations.
2. Remove screws marked **(c)** as shown in Fig. 2 at 8 locations.
3. Remove screws marked **(d)** as shown in Fig. 2 at 4 locations.
4. Disconnect the 4 connectors.(CN101,CN102,CN103,X) & Disconnect the joint as shown in Fig. 2.

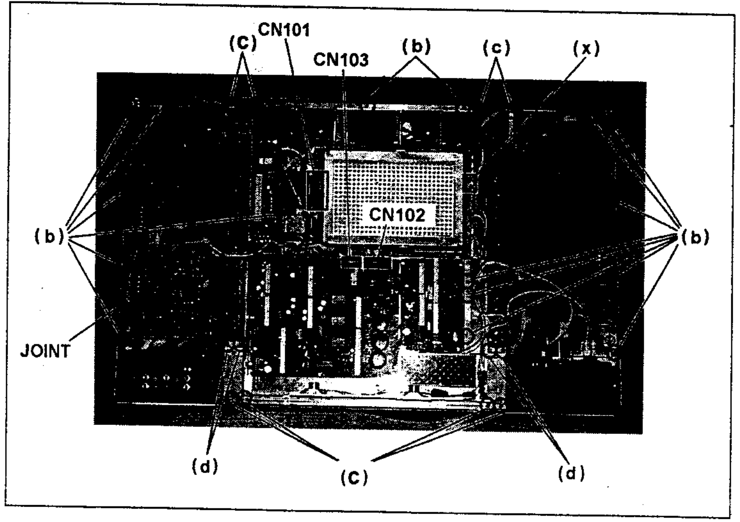


Fig. 2

5. Remove screws marked **(e)** as shown in Fig. 3 at 10 locations.

- *Do not remove other screws.*

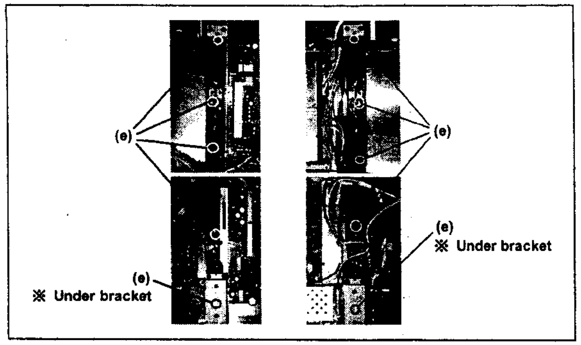

(e)
(e)
(e)
※ Under bracket
(e)
※ Under bracket

Fig.3

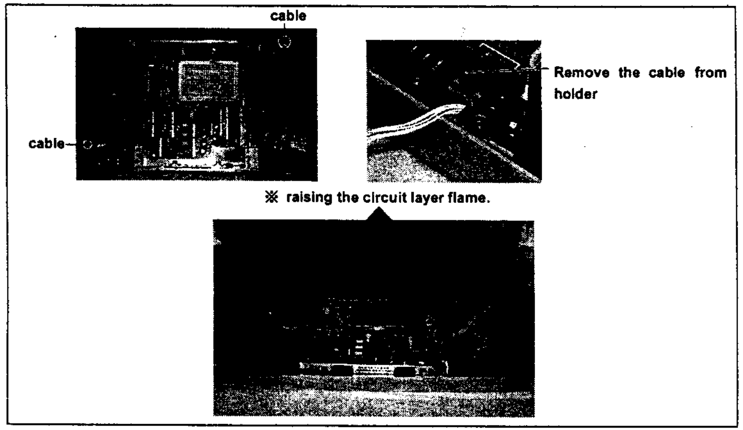

cable
cable
Remove the cable from holder
※ raising the circuit layer flame.

Fig.4

Removing the Plasma Display Panel

1. Remove screws marked **(f)** as shown in Fig. 5 at 4 locations.
2. Remove the Plasma Display Panel.

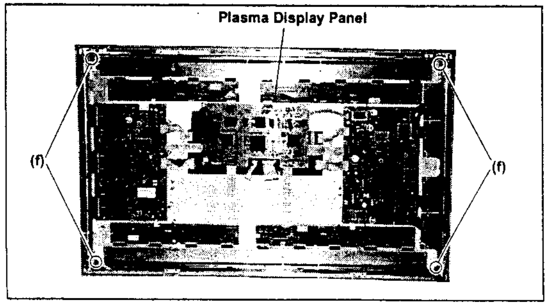

Plasma Display Panel
(f)
(f)

Fig.5

Removing the Front Panel and Optical Filter

- It is not necessary removing the Rear cover.

1. Remove screws marked **(g)** as shown in Fig.6 at 3 locations.
2. Remove the Front Panel.

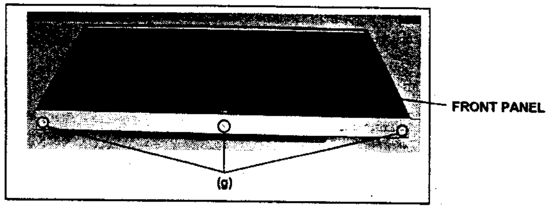

FRONT PANEL
(g)

Fig.6

3. Remove screws marked **(h)** as shown in Fig.7 at 10 locations.
4. Remove the Holders at 10 location.
5. Remove the Optical Filter.

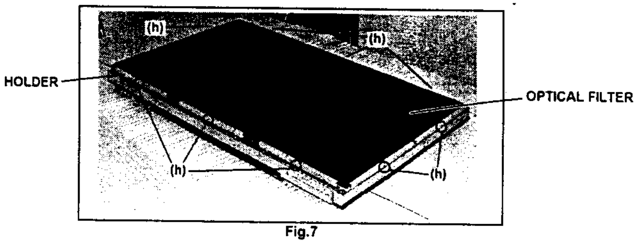

(h)
(h)
HOLDER
OPTICAL FILTER
(h)
(h)

Fig.7

Removing the Main Components

- **Removing the Fan Motors**

- After removing the rear cover.

1. Remove screws marked (I) at 2 locations.
2. Remove the connectors.
3. Remove the fan motors.

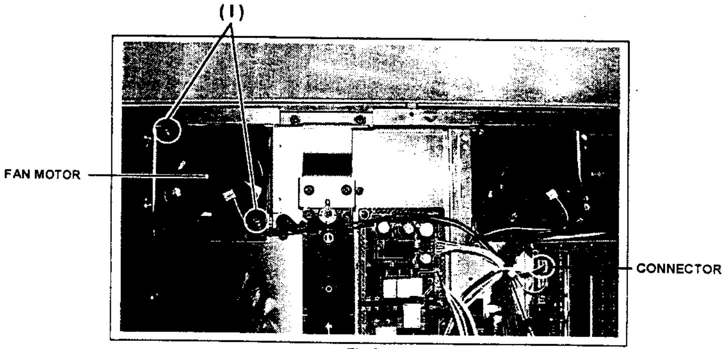

(I)
FAN MOTOR
CONNECTOR

Fig.8

Removing the speaker

- After removing the rear cover.

1. Remove screws marked (J) as shown in Fin.9 at 4 locations.
2. Slightly raise the power circuit block.
3. Remove screw marked (K) as shown in Fig.10 at 2 locations.
4. Remove the speakers.

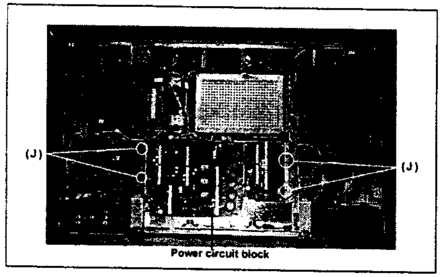

(J)
(J)
Power circuit block

Fig.9

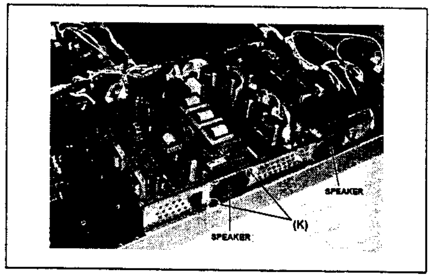

SPEAKER
SPEAKER
(K)

Fig.10

Removing the Input Terminal Board.

- After removing the rear cover.

1. Remove screws marked (L), (M) and (N) as shown in Fin.11 at 20 locations.
2. Remove screws marked (O) as shown in Fig.11 at 8 locations.
3. Remove the Input Terminal board.

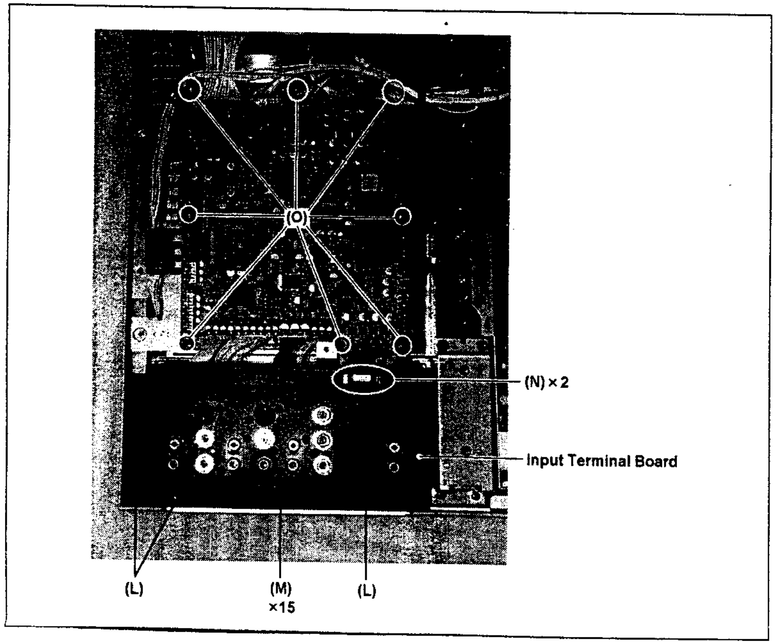

(O)
(N) × 2
Input Terminal Board
(L)
(M)
×15
(L)

Fig.11

Removing the Speaker Terminal Board.

- After removing the rear cover.

1. Remove screws marked (P), (Q) , (R) & (S) as shown in Fin.12 at 11 locations.
2. Remove the speaker terminal board.

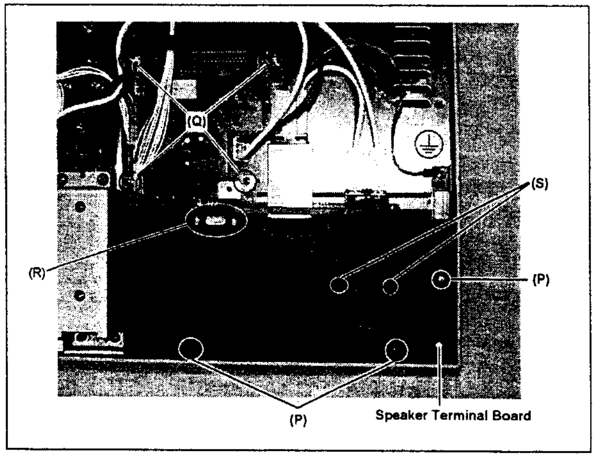

(Q)
(S)
(R)
(P)
(P)
Speaker Terminal Board

Fig.12

SERVICE ADJUSTMENTS

PRIOR TO STARTING ADJUSTMENT

1. *Confirm the proper AC power voltage is being supplied.*
2. Supply power to the set and measuring instruments and allow to warm up for at least 30 minutes.
3. Use care not disturb controls and switches not mentioned in the adjustments items.
4. Refer to adjustments setting and set user operated controls (BRIGHT, CONTRAST, PHASE, TINT, etc.) to the indicated positions.

How to enter the SERVICE MENU

The steps how to enter the SERVICE MENU are shown below. The steps are common to the TV set and remote controller.

(1) Press 「MENU」 KEY and 「 ↑ 」 KEY simultaneously.
The symbol ⚠ will be displayed on the screen center.

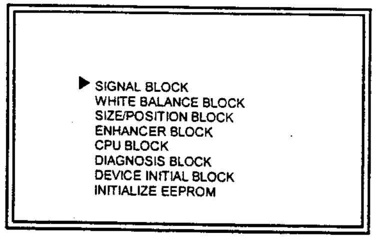
(2) While ⚠ is on the screen, press 「MENU」 KEY and 「VOL－」 KEY simultaneously.
The words <Please don't touch!> will be displayed on the screen center.

(3) While the words of <Please don't touch!> are on display, press 「 → 」 KEY
The SERVICE MENU will be displayed.

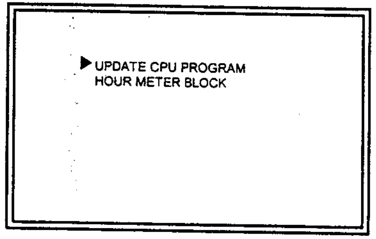
The first letters of the SERVICE MENU correspond to the following blocks, respectively.

S ------ SIGNAL BLOCK
W ------ WHITE BALANCE BLOCK
D ------ SIZE/POSITION BLOCK
E ------ ENHANCER BLOCK
C ------ CPU BLOCK

SERVICE MENU(1/2)



SERVICE MENU(2/2)



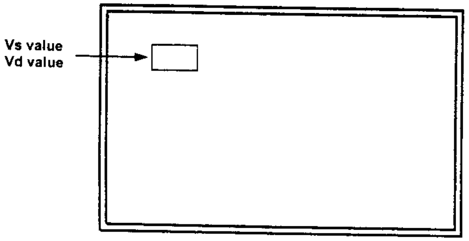
1. Power voltage

Preparation before Adjustments	Make sure that "NOSYNC" is displayed when the power is turned ON. It is necessary to wait for more than 5 minutes.
Measuring instruments	Digital Voltage meter

1. Connect the probe of the digital voltage meter to the test point (175V、GND) of the power PB ass'y.
2. Read the Vs value behind the panel and adjust the VR551 so that the power voltage falls within the value. (Tolerance: ±1.0V of the displayed value)
3. Connect the probe of the digital voltage meter to the test point (75V、GND) of the power PB ass'y.
4. Read the Vd value behind the panel and adjust the VR351 so that the power voltage falls within the value. (Tolerance: ±1.0V of the displayed value)

* Instead of the test points, the following connectors for TP can also be used.

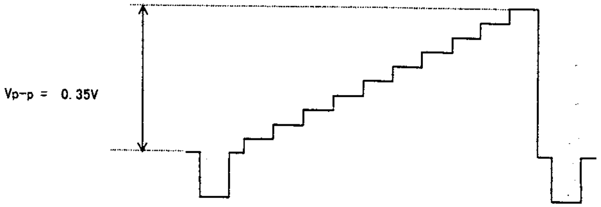
TP
1, Vd
2, GND
3, N. C.
4, Vs



2. Sub-contrast (NTSC)

Measuring Instruments	Oscilloscope / NTSC video signal generator
Preparation before Adjustments	
Adjustment Steps	Composite video signal 10 STEP pattern Chromatography signal should be turned OFF.

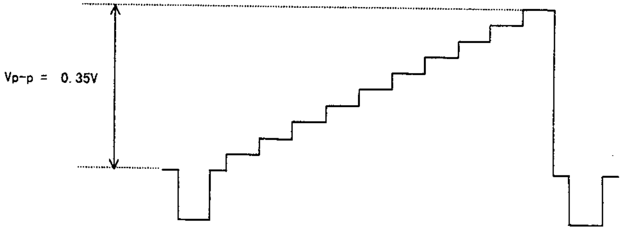
1. Input the signal to VIDEO A.
2. Connect the probe of the oscilloscope to the digital PCB TP-Y.
3. Adjust the <SERVICE MENU> signal block SA05 so that the amplitude between black signal portion and white 100% portion becomes0.35V.



3. Sub-contrast (480I)

Measuring Instruments	Oscilloscope / Video signal generator
Preparation before Adjustments	
Signals to be used	480i video signal 10 STEP pattern

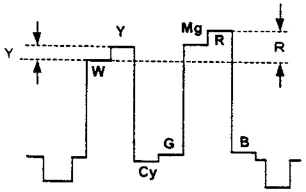
1. Input the Y signal to the Y terminal of COMPONENT.
2. Connect the probe of the oscilloscope to the digital PCB TP-Y.
3. Adjust the <SERVICE MENU> signal block SG05 so that the amplitude between black signal portion and white100% portion becomes 0.35V.



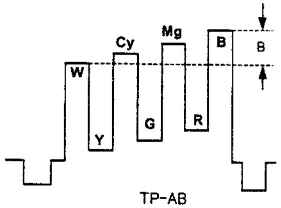
4. Chromatography phase (video input, NTSC)

Measuring instruments	Oscilloscope / NTSC video signal generator
Preparation before adjustments	The <PICTURE ADJ.> of the <MAIN MENU> should be initialized.
Signals to be used	Composite video signal 75% color bar pattern

1. Input the signal to VIDEO A.
2. Connect the probe of the oscilloscope to AV PCB TP-AR.
3. Alternatively adjust the <SERVICE MENU>signal block SA03(chromatography) and SA04(phase) so that the electric potential difference "R" and "Y"shown in the Fig. fall within the values indicated in the following table.
4. Connect the probe of the oscilloscope to AV PCB TP-AB.
5. Adjust the <SERVICE MENU>signal block SA07(B-Y gain) so that the electric potential difference "B" shown in the Fig. falls within the value indicated in the following table.



TP-AR



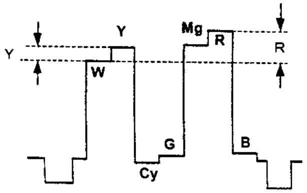
TP-AB

	Adjusting value (V)
R	0
Y	0
B	0

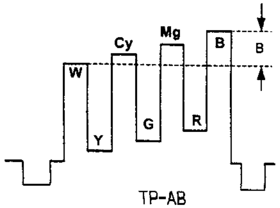
5. Chromatography phase (video input, PAL)

Measuring instruments	Oscilloscope / PAL video signal generator
Preparation before adjustments	The <PICTURE ADJ.> of the <MAIN MENU> should be initialized.
Signals to be used	Composite video signal 75% color bar pattern

1. Input the signal to VIDEO A.
2. Connect the probe of the oscilloscope to AV PCB TP-AR.
3. Alternatively adjust the <SERVICE MENU> signal block SB03(chromatography) and SB04(phase) so that the electric potential difference "R" and "Y"shown in the Fig. fall within the values indicated in the following table.
4. Connect the probe of the oscilloscope to AVB PCB TR-AB.
5. Adjust the <SERVICE MENU>signal block SB07(B-Y gain) so that the electric potential difference "B" shown in the Fig. falls within the value indicated in the following table.



TP-AR



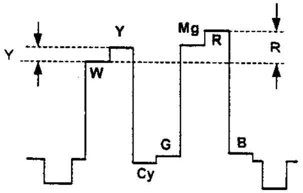
TP-AB

	Adjusting value (V)
R	0
Y	0
B	0

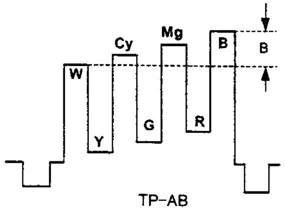
6. Chroma-graphy phase (video input, SECAM)

Measuring instruments	Oscilloscope / SECAM video signal generator
Preparation before adjustments	The <PICTURE ADJ.> of the <MAIN MENU> should be initialized.
Signals to be used	Composite video signal - 75% color bar pattern

1. Input the signal to VIDEO A.
2. Connect the probe of the oscilloscope to AV PCB TR-AR.
3. Alternatively adjust the <SERVICE MENU>signal block SC03(chromatography) and SC04(phase) so that the electric potential difference "R" and "Y"shown in the Fig. fall within the values indicated in the following table.
4. Connect the probe of the oscilloscope to AV-PCB TR-AB.
5. Adjust the <SERVICE MENU>signal block SC07(B-Y gain) so that the electric potential difference "B" shown in the Fig. falls within the value indicated in the following table.



TP-AR



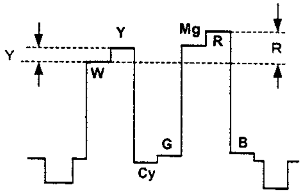
TP-AB

	Adjusting value (V)
R	0
Y	0
B	0

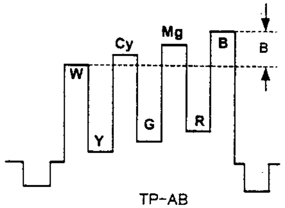
7. Chromatography phase (YC input, NTSC)

Measuring instruments	Oscilloscope / Video signal generator
Preparation before adjustments	The <PICTURE ADJ.> of the <MAIN MENU> should be initialized.
Signals to be used	YC video signal 75% color bar pattern

1. Input the signal to Y/C terminal of VIDEO A.
2. Connect the probe of the oscilloscope to AV PCB TR-AR.
3. Alternatively adjust the <SERVICE MENU>signal block SD03(chromatography) and SD04(phase) so that the electric potential difference "R" and "Y"shown in the Fig. fall within the values indicated in the following table.
4. Connect the probe of the oscilloscope to AV-PCB TR-AB.
5. Adjust the <SERVICE MENU>signal block SD07(B-Y gain) so that the electric potential difference "B" shown in the Fig. falls within the value indicated in the following table.



TP-AR



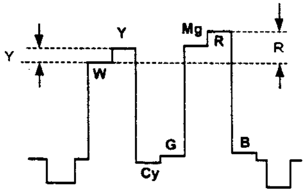
TP-AB

	Adjusting value (V)
R	0
Y	0
B	0

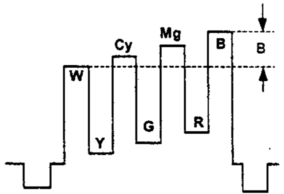
8. Chromatography phase (YC input, PAL)

Measuring instruments	Oscilloscope / PAL video signal generator
Preparation before adjustments	The <PICTURE ADJ.> of the <MAIN MENU> should be initialized.
Signals to be used	YC video signal 75% color bar pattern

1. Input the signal to Y/C terminal of VIDEO A.
2. Connect the probe of the oscilloscope to AV PCB TR-AR.
3. Alternatively adjust the <SERVICE MENU>signal block SE03(chromatography) and SE04(phase) so that the electric potential difference "R" and "Y"shown in the Fig. fall within the values indicated in the following table.
4. Connect the probe of the oscilloscope to AV PCB TR-AB.
5. Adjust the <SERVICE MENU>signal block SE07(B-Y gain) so that the electric potential difference "B" shown in the Fig. falls within the value indicated in the following table.



TP-AR



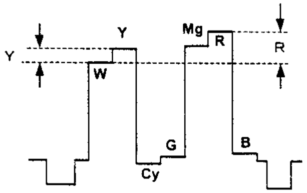
TP-AB

	Adjusting value (V)
R	0
Y	0
B	0

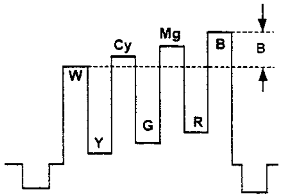
9. Chroma-graphy phase (YC input, SECAM)

Measuring instruments	Oscilloscope / Video signal generator
Preparation before adjustments	The <PICTURE ADJ.> of the <MAIN MENU> should be initialized.
Signals to be used	YC video signal 5 % color bar pattern

1. Input the signal to Y/C terminal of VIDEP A.
2. Connect the probe of the oscilloscope to AV PCB TR-AR.
3. Alternatively adjust the <SERVICE MENU>signal block SF03(chromatography) and SF04(phase) so that the electric potential difference "R" and "Y"shown in the Fig. fall within the values indicated in the following table.
4. Connect the probe of the oscilloscope to AV PCB TR-AB.
5. Adjust the <SERVICE MENU>signal block SF07(B-Y gain) so that the electric potential difference "B" shown in the Fig. falls within the value indicated in the following table.



TP-AR



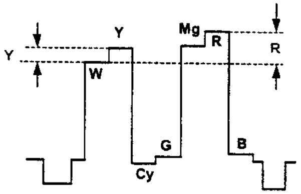
TP-AB

	Adjusting value (V)
R	0
Y	0
B	0

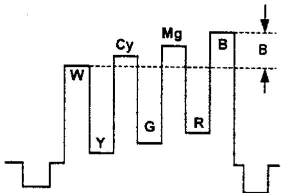
10. Chromatography phase (component input,480i)

Measuring instruments	Oscilloscope / Video signal generator
Preparation before adjustments	The <PICTURE ADJ.> of the <MAIN MENU> should be initialized.
Signals to be used	480i video signal100% color bar pattern

1. Input the signal to COMPONENT terminal.
2. Connect the probe of the oscilloscope to AV PCB-TR-AR.
3. Alternatively adjust the <SERVICE MENU>signal block SG03(chromatography) and SG04(phase) so that the electric potential difference "R" and "Y"shown in the Fig. fall within the values indicated in the following table.
4. Connect the probe of the oscilloscope to AV PCB TR-AB.
5. Adjust the <SERVICE MENU>signal block SG07(B-Y gain) so that the electric potential difference "B" shown in the Fig. falls within the value indicated in the following table.



TP-AR



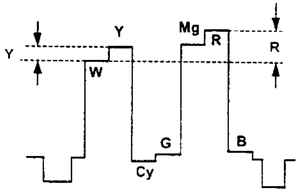
TP-AB

	Adjusting value (V)
R	0
Y	0
B	0

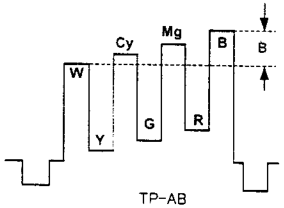
11. Chromatography phase (component input, 576i)

Measuring instruments	Oscilloscope / Video signal generator
Preparation before adjustments	The <PICTURE ADJ.> of the <MAIN MENU> should be initialized.
Signals to be used	576i video signal 75% color bar pattern

1. Input the signal to COMPONENT terminal.
2. Connect the probe of the oscilloscope to AV PCB TR-AR.
3. Alternatively adjust the <SERVICE MENU>signal block SH03(chromatography) and SH04(phase) so that the electric potential difference "R" and "Y"shown in the Fig. fall within the values indicated in the following table.
4. Connect the probe of the oscilloscope to AV PCB TR-AB.
5. Adjust the <SERVICE MENU>signal block SH07(B-Y gain) so that the electric potential difference "B" shown in the Fig. falls within the value indicated in the following table.



TP-AR



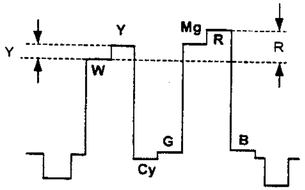
TP-AB

	Adjusting value (V)
R	0
Y	0
B	0

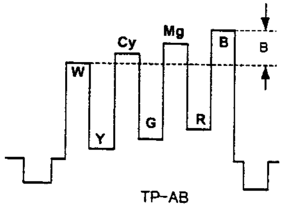
12. Chroma-graphy phase (component input, 480p)

Measuring instruments	Oscilloscope / Video signal generator
Preparation before adjustments	The <PICTURE ADJ.> of the <MAIN MENU> should be initialized.
Signals to be used	480p video signal 100% color bar pattern

1. Input the signal to COMPONENT terminal.
2. Connect the probe of the oscilloscope to AV PCB TR-AR.
3. Alternatively adjust the <SERVICE MENU>signal block SI03(chromatography) and SI04(phase) so that the electric potential difference "R" and "Y"shown in the Fig. fall within the values indicated in the following table.
4. Connect the probe of the oscilloscope to AV PCB TR-AB.
5. Adjust the <SERVICE MENU>signal block SI07(B-Y gain) so that the electric potential difference "B" shown in the Fig. falls within the value indicated in the following table.



TP-AR



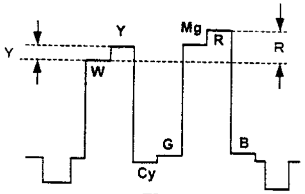
TP-AB

	Adjusting value (V)
R	0
Y	0
B	0

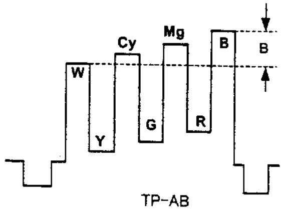
13. Chromatography phase (component input, 720p)

Measuring instruments	Oscilloscope / Video signal generator
Preparation before adjustments	The <PICTURE ADJ.> of the <MAIN MENU> should be initialized.
Signals to be used	720p video signal 100% color bar pattern

1. Input the signal to COMPONENT terminal.
2. Connect the probe of the oscilloscope to AV PCB TR-AR.
3. Alternatively adjust the <SERVICE MENU>signal block SJ03(chromatography) and SJ04(phase) so that the electric potential difference "R" and "Y"shown in the Fig. fall within the values indicated in the following table.
4. Connect the probe of the oscilloscope to AV PCB TR-AB.
5. Adjust the <SERVICE MENU>signal block SJ07(B-Y gain) so that the electric potential difference "B" shown in the Fig. falls within the value indicated in the following table.



TP-AR



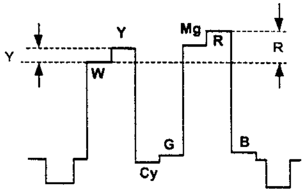
TP-AB

	Adjusting value (V)
R	0
Y	0
B	0

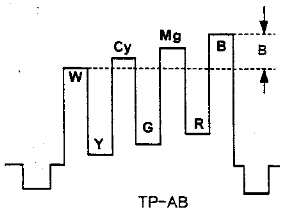
14. Chromatography phase (component input, 1080i)

Measuring instruments	Oscilloscope / Video signal generator
Preparation before adjustments	The <PICTURE ADJ.> of the <MAIN MENU> should be initialized.
Signals to be used	1080i video signal 100% color bar pattern

1. Input the signal to COMPONENT terminal.
2. Connect the probe of the oscilloscope to AV PCB TP-AB.
3. Alternatively adjust the <SERVICE MENU>signal block SK03(chromatography) and SK04(phase) so that the electric potential difference "R" and "Y"shown in the Fig. fall within the values indicated in the following table.
4. Connect the probe of the oscilloscope to AV PCB TP-AB.
5. Adjust the <SERVICE MENU>signal block SK07(B-Y gain) so that the electric potential difference "B" shown in the Fig. falls within the value indicated in the following table.



TP-AR



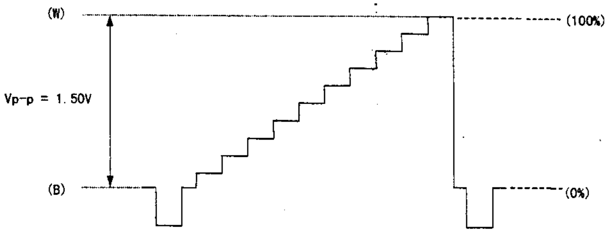
TP-AB

	Adjusting value (V)
R	0
Y	0
B	0

15. AD input level (NTSC)

Measuring Instruments	Oscilloscope / NTSC video signal generator
Signal to be used	Composite video signal 10 STEP pattern Chromatography signal should be turned OFF.

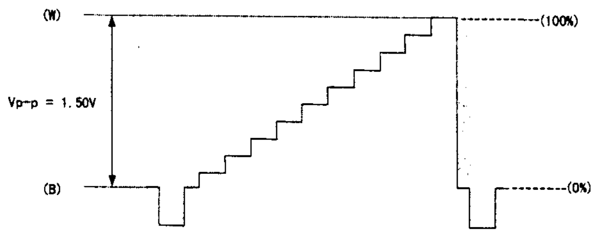
1. Input the signal to VIDEO A.
2. Connect the probe of the oscilloscope to the digital PCB TP-G.
3. Adjust the <SERVICE MENU>signal block SA01 (AD input level) so that the amplitude between black signal portion and white 100% portion becomes 1.50V.



16.AD input level (NTSC)

Measuring Instruments	Oscilloscope / NTSC video signal generator
Signal to be used	480i video signal 10 STEP pattern

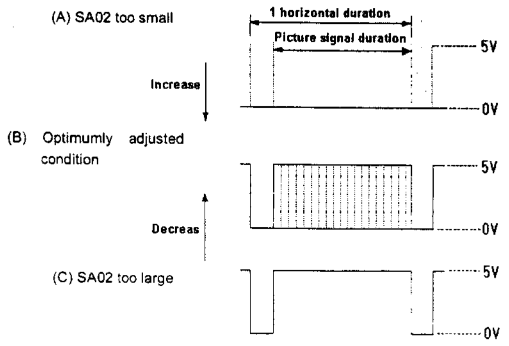
1. Input the Y signal to Y terminal of COMPONENT.
2. Connect the probe of the oscilloscope to the digital PCB TP-G.
3. Adjust the <SERVICE MENU>signal block SG1 (AD input level) so that the amplitude between black signal portion and white 100% portion becomes 1.50V.


(W)
(100%)
Vp-p = 1. 50V
(B)
(0%)

17.AD input offset (NTSC)

Measuring Instruments	Oscilloscope / NTSC video signal generator
Signals to be used	Composite video signal - All black pattern

1. Input the signal to VIDEO A.
2. Connect the probe of the oscilloscope to the digital PCB TP-65 (IC205 ⑮ pin - the fifth bit from the bottom) .
3. Adjust the <SERVICE MENU>signal block SA02 (AD input offset) so that the brightness Low(0V) and High(5V) of the digital signal voltage, which corresponds to the picture signal duration, become the same. Because there are many kinds of optimumly adjusted condition indicated by (B) , increase SA02 gradually to get the point where the first optimum condition is obtained.

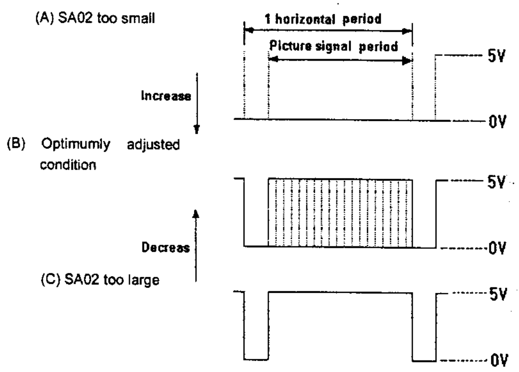

(A) SA02 too small
1 horizontal duration
Picture signal duration
5V
Increase
0V
(B) Optimumly adjusted condition
5V
Decreas
0V
(C) SA02 too large
5V
0V

---

18. AD input offset (480i)

Measuring Instruments	Oscilloscope / Video signal generator
Signals to be used	COMPONENT video signal - All black pattern

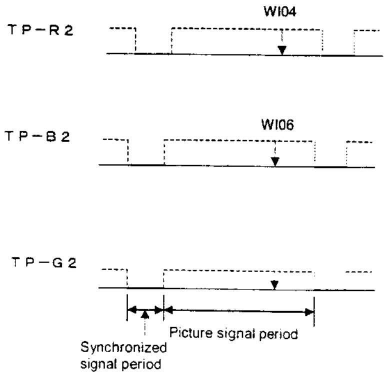
1. Input the Y signal to Y terminal of COMPONET.
2. Connect the probe of the oscilloscope to the digital PCB TP-G5 (IC205⑮ pin - the fifth bit from the bottom) .
3. Adjust the <SERVICE MENU>signal block SG02 (AD input offset) so that the brightness Low(0V) and High(5V) of the digital signal voltage, which corresponds to the picture signal period, become the same. There are many kinds of optimumly adjusted condition indicated by (B) . Obtain the optimum condition within 2~3 from the first value.


(A) SA02 too small
1 horizontal period
Picture signal period
5V
Increase
0V
(B) Optimumly adjusted condition
5V
Decreas
0V
(C) SA02 too large
5V
0V

19. Color difference offset

Measuring Instruments	Oscilloscope / NTSC video signal generator
Signals to be used	Composite video signal - all black pattern / Chroma-graphy signal should be turned OFF.

1. Input the signal to VIDEO A.
2. Connect the probe of the oscilloscope to the digital PCB TP-R2、TP-G2 and TP-B2.
3. Adjust the <SERVICE MENU>signal block WI04(R offset) / WI06 (B offset) so that the offset between the picture signal period and the synchronized signal period is eliminated. If WI04 / WI06 are decreased too much, an offset will be generated on TP-G2. Therefore, all three wave forms shall be adjusted properly so that there are no offsets.

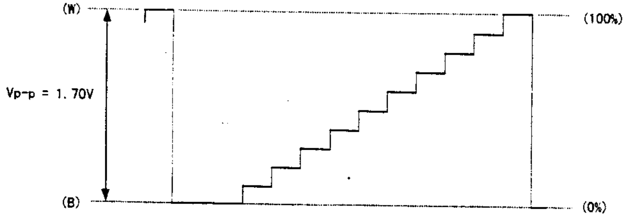

WI04
TP-R2
WI06
TP-B2
TP-G2
Picture signal period
Synchronized signal period

Etting of oscilloscope	
Horizontal Vartical	10μ S/div 0.1 V/div

20. Contrast (NTSC)

Measuring Instruments	Oscilloscope / NTSC video signal generator
Signals to be used	Composite video signal – 10 STEP pattern Chromatography signal should be turned OFF.

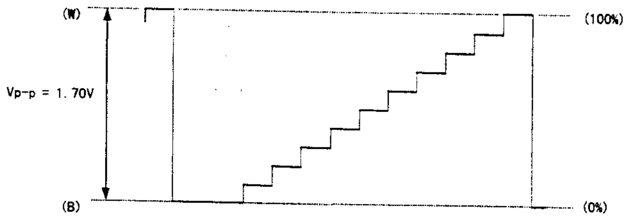
1. Input the signal to VIDEO A.
2. Connect the probe of the oscilloscope to the digital PCB TP-G2.
3. Adjust the <SERVICE MENU>signal block SA10 so that the electric potential difference shown in the Fig. Becomes1.70V.



21. Contrast (VGA)

Measuring Instruments	Oscilloscope / PC video signal generator
Signals to be used	VGA signal 640 x 480 dots (Horizontal frequency: 31.5KHz, Vertical frequency: 60Hz) Gray scale pattern

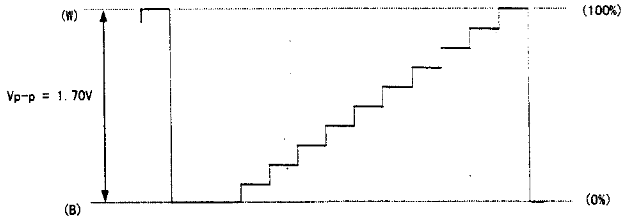
1. Input the signal to PC terminal.
2. Connect the probe of the oscilloscope to the digital PCB TP-G.
3. Adjust the <SERVICE MENU>signal block SL10 so that the electric potential difference shown in the Fig. Becomes1.70V.



22. Contrast (480i)

Measuring Instruments	Oscilloscope / NTSC video signal generator
Signals to be used	480i video signal - 10 STEP pattern

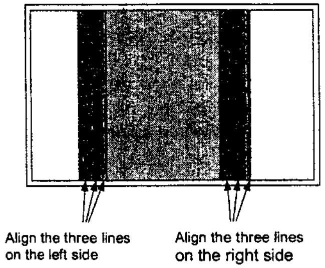
1. Input the Y signal to Y terminal of COMPONENT.
2. Connect the probe of the oscilloscope to the digital PCB TP-G2.
3. Adjust the <SERVICE MENU>signal block SG10 so that the electric potential difference shown in the Fig. Becomes1.70V.



23. RGB balance (NTSC)

Measuring Instruments	Oscilloscope / NTSC video signal generator
Signals to be used	Composite video signal - ramp pattern Chromatography signal should be turned OFF.

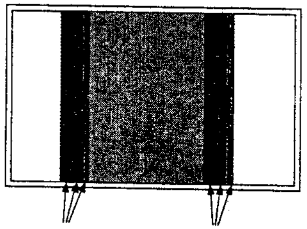
1. Input the signal to VIDEO A.
2. Change the <SERVICE MENU>CPU block CH01 from "2" to "2" to enter the test mode for R/G/B balance.
3. Adjust the <SERVICE MENU>WHITE BALANCE block WC04(R CUTOFF) and WC06(B CUTOFF) so that the three lines at the left side on the PDP panel are aligned. Don't move WC05(G CUTOFF).
4. Then adjust the <SERVICE MENU> WHITE BALANCE block WC01(R DRIVE) and WC03(B DRIVE) so that the three lines on the right side on the PDP panel are aligned. Don't move WC05(G DRIVE).
5. Because the lines aligned in the step 3. will shift as the result of the adjustment in the step 4. , repeat the steps 3.. and 4. so that the three lines on the left and right sides are aligned respectively.
6. Return the <SERVICE MENU> CH01 from "2" to "0"..


Align the three lines on the left side
Align the three lines on the right side

24.RGB balance (408i)

Measuring Instruments	Oscilloscope
Signals to be used	480i video signal - ramp pattern Chromatography signal should be turned OFF.

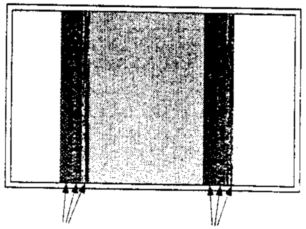
1. Input the signal to COMPONENT terminal.
2. Change the <SERVICE MENU>CPU block CH01 from "0" to "2" to enter the test mode for R/G/B balance.
3. Adjust the <SERVICE MENU>WHITE BALANCE block WE04(R CUTOFF) and WE06(B CUTOFF) so that the three lines at the left side on the PDP panel are aligned. Don't move WE05(G CUTTOFF).
4. Then adjust the <SERVICE MENU> WHITE BALANCE block WE01(R DEIVE) and WE03(B DEIVE) so that the three lines on the right side on the PDP panel are aligned. Don't move WE02(G DRIVE).
5. Because the lines aligned in the step 3. will shift as the result of the adjustment in the step 4. repeat the steps 3. and 4. so that the three lines on the left and right sides are aligned respectively.
6. Return the <SERVICE MENU> CH01 from "2" to "0" .


Align the three lines on the left side
Align the three lines on the right side

25. RGB balance (VGA)

Measuring Instruments	Oscilloscope PC video signal generator
Signals to be used	VGA signal 640×480 dots (Horizontal frequency: 31.5KHz, Vertical frequency: 60Hz) ramp pattern

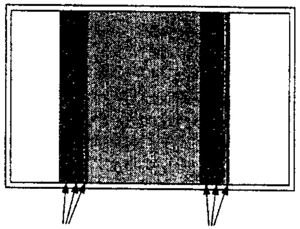
1. Input the signal to PC terminal.
2. Change the <SERVICE MENU>CPU block CH01 from "0" to "2" to enter the test mode for RGB balance.
3. Adjust the <SERVICE MENU>WHITE BALANCE block WA04(R CUTOFF) and WA06(B CUTOFF) so that the three lines at the left side on the PDP panel are aligned. Don't move WA05(G CUTTOFF).
4. Then adjust the <SERVICE MENU> WHITE BALANCE block WA01(R DRIVE) and WA03(B DRIVE) so that the three lines on the right side on the PDP panel are aligned. Don't move WA02(G DRIVE).
5. Because the lines aligned in the step 3. will shift as the result of the adjustment in the step 4., repeat the steps 3. and 4. so that the three lines on the left and right sides are aligned respectively.
6. Return the <SERVICE MENU> CH01 from "2" to "0" .


Align the three lines on the left side
Align the three lines on the right side

26.RGB balance (1080i)

Measuring Instruments	Oscilloscope / Video signal generator
Signals to be used	1080i video signal - ramp pattern

1. Input the signal to COMPONENT terminal.
2. Change the <SERVICE MENU>CPU block CH01 from "0" to "2" to enter the test mode for R/G/B balance.
3. Adjust the <SERVICE MENU>WHITE BALANCE block WG04(R CUTOFF) and WG06(B CUTOFF) so that the three lines at the left side on the PDP panel are aligned. Don't move WG05(G CUTOFF).
4. Then adjust the <SERVICE MENU> WHITE BALANCE block WG01(R DRIVE) and WG03(B DRIVE) so that the three lines on the right side on the PDP panel are aligned. Don't move WG02(G DRIVE).
5. Because the lines aligned in the step 3. will shift as the result of the adjustment in the step 4. repeat the steps 3. and 4. so that the three lines on the left and right sides are aligned respectively.
6. Return the <SERVICE MENU> CPU block CH01 from "2" to "0" .


Align the three lines on the left side
Align the three lines on the right side

27. White balance (NTSC)

Measuring Instruments	Video signal generator / Color temperature measuring device
Preparation before Adjustments	Wait for more than 20 minutes. If the power is turned off by unpluging the AC, start the adjustment 5 minutes after turning the power on again. The <PICTURE ADJ.> of the <MAIN MENU> should be initialized.. This adjustment shall be done after completing the adjustment of RGB balance.
Signal to be used	NTSC video signal - window pattern Set the burst "ON".

1. Input the signal to VIDEO A.
2. Select HIGH in the steps of <MAIN MENU> → <FUNCTION SELECT> → COLOR TEMP.
3. Adjust the <SERVICE MENU>WHITE BALANCE block WC07(R DRIVE) and WC08(G DRIVE) so that the color temperature become the HIGH adjustment point as shown below. Leave WC09(B DRIVE) at "255".
4. In case where adjustments cannot be done with step 3. temporarily return WC07(R DRIVE) and WC08(G DRIVE) to "255" and fix WC08(G DRIVE) at "255". Then adjust WC07(R DRIVE) and WC09(B DRIVE) again.
5. Select LOW in the steps of <MAIN MENU> → <FUNCTION SELECT> → COLOR TEMP.
6. Adjust the <SERVICE MENU> WD08(G DRIVE) and WD09(B DRIVE) so that the color temperature is at the Low adjustment point as shown below. Don't move WD07(R DRIVE).
7. In case where adjustments cannot be done with step 6. temporarily return WD08(R DRIVE) and WD09(G DRIVE) to "255" and fix WD08(G DRIVE) at "255". Then adjust WD07(R DRIVE) and WD09(B DRIVE) again.

COLOR TEMP.	COLOR TEMP. ADJUSTING POINT
HIGH (EQUIVALENT TO D93)	x = 0.283 y = 0.297
LOW (EQUIVALENT TO D65)	x = 0.313 y = 0.329

28. White balance (480i)

Measuring Instruments	Video signal generator Color temperature measuring device
Preparation before Adjustments	Wait for more than 20 minutes. If the power is turned off by unpluging the AC, start the adjustment 5 minutes after turning the power on again. The <PICTURE ADJ.> of the <MAIN MENU> should be initialized. This adjustment shall be done after completing the adjustment of R G B balance. This adjustment shall be done after completing the adjustment of NTSC white balance.
Signal to be used	480i video signal - window pattern

1. Input the signal to COMPONENT terminal.
2. Select HIGH in the steps of <MAIN MENU> → <FUNCTION SELECT> → COLOR TEMP.
3. Adjust the <SERVICE MENU> WHITE BALANCE block WE07(R DRIVE), WE08(G DRIVE) and WE09(G DRIVE) so that the color temperature become the HIGH adjustment point as shown below. At this time, the adjustment is made after fixing the color, which was fixed at NTSC white balance HIGH, to "0".
4. In case where adjustments cannot be done by fixing BLUE to "0" in step 3. fix GREEN to "0". In case where adjustments cannot be done by fixing GREEN to "0" in step 3. fix RED to "0".
5. Select LOW in the steps of <MAIN MENU> → <FUNCTION SELECT> → COLOR TEMP.
6. Adjust the <SERVICE MENU> WF08(G DRIVE) and WF09(B DRIVE) so that the color temperature is at the Low adjustment point as shown below. At this time, the adjustment is made after fixing the color, which was fixed at NTSC white balance HIGH, to "0"
7. In case where adjustments cannot be done by fixing RED to "0" in step 6. fix GREEN to "0". In case where adjustments cannot be done by fixing GREEN to "0" in step 3. fix BLUE to "0".

COLOR TEMP.	COLOR TEMP. ADJUSTING POINT
HIGH (EQUIVALENT TO D93)	x = 0.283 y = 0.297
LOW (EQUIVALENT TO D65)	x = 0.313 y = 0.329

29. White balance (VGA)

Measuring Instruments	PC video signal generator / Color temperature measuring device
Preparation before Adjustments	Wait for more than 20 minutes. If the power is turned off by unpluging the AC, start the adjustment 5 minutes after turning the power on again. The <PICTURE ADJ.> of the <MAIN MENU> should be initialized. This adjustment shall be done after completing the adjustment of RGB balance.
Signal to be used	VGA video signal 640×480 dots (Horizontal frequency: 31.5KHz, Vertical frequency: 60Hz) Window pattern

1. Input the signal to PC terminal.
2. Select HIGH in the steps of <MAIN MENU> → <FUNCTION SELECT> → COLOR TEMP.
3. Adjust the <SERVICE MENU> WHITE BALANCE block WA07(R DRIVE) and WA08(G DRIVE) so that the color temperature become the HIGH adjustment point as shown below. Don't move WA09(B DRIVE).
4. In case where adjustments cannot be done with step 3. temporarily return WA07(R DRIVE) and WA08(G DRIVE) to "255" and fix WA08(G DRIVE) at "255". Then adjust WA07(R DRIVE) and WA09(B DRIVE) again.
5. Select LOW in the steps of <MAIN MENU> → <FUNCTION SELECT> → COLOR TEMP.
6. Adjust the <SERVICE MENU> WB08(G DRIVE) and WB09(B DRIVE) so that the color temperature is at the Low adjustment point as shown below. Don't move WB07(R DRIVE).
7. In case where adjustments cannot be done with step 6., temporarily return WB08(R DRIVE) and WB09(G DRIVE) to "255" and fix WB08(G DRIVE) at "255". Then adjust WB07(R DRIVE) and WB09(B DRIVE) again.

COLOR TEMP.	COLOR TEMP. ADJUSTING POINT
HIGH (EQUIVALENT TO D93)	x = 0.283 y = 0.297
LOW (EQUIVALENT TO D65)	x = 0.313 y = 0.329

30. White balance (1080i)

Measuring Instruments	Video signal generator / Color temperature measuring device (Color temperature meter)
Preparation before Adjustments	Wait for more than 20 minutes. If the power is turned off by unplugging the AC, start the adjustment 5 minutes after turning the power on again. The <PICTURE ADJ.> of the <MAIN MENU> should be initialized. This adjustment shall be done after completing the adjustment of RGB balance.
Signal to be used	1080i video signal - window pattern

1. Input the signal to COMPONENT terminal.
2. Select HIGH in the steps of <MAIN MENU> → <FUNCTION SELECT> → COLOR TEMP.
3. Adjust the <SERVICE MENU> WHITE BALANCE block WG07(R DRIVE) and WG08(G DRIVE) so that the color temperature become the HIGH adjustment point as shown below. At this time, the adjustment is made after fixing the color, which was fixed at VGA white balance HIGH, to "0".
4. In case where adjustments cannot be done by fixing BLUE to "0" in step 3, fix GREEN to "0". In case where adjustments cannot be done by fixing GREEN to "0" in step 3, fix RED to "0".
5. Select LOW in the steps of <MAIN MENU> → <FUNCTION SELECT> → COLOR TEMP.
6. Adjust the <SERVICE MENU> WH08(G DRIVE) and WH09(B DRIVE) so that the color temperature is at the LOW adjustment point as shown below. At this time, the adjustment is made after fixing the color, which was fixed at VGA white balance LOW, to "0".
7. In case where adjustments cannot be done by fixing RED to "0" in step 6, fix GREEN to "0". In case where adjustments cannot be done by fixing GREEN to "0" in step 6, fix BLUE to "0".

COLOR TEMP.	COLOR TEMP. ADJUSTING POINT
HIGH (EQUIVALENT TO D93)	x = 0.283 y = 0.297
LOW (EQUIVALENT TO D65)	x = 0.313 y = 0.329

31. Bright (NTSC)

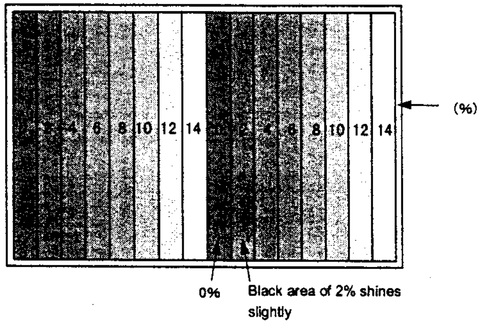
Measuring Instruments	Video signal generator
Preparation before Adjustments	Adjustments of contrast and white balance shall be completed beforehand. The <PICTURE ADJ.> of the <MAIN MENU> shall be initialized.
Signals to be used	Video signal NTSC – Gray scale pattern

1. Input the signal to VIDEO A.
2. Adjust the <SERVICE MENU>signal block SA11 so that the black area of 0% shines slightly. (Care must be taken not to make the panel screen with the state of "black embossment".)

32. Bright (VGA)

Measuring Instruments	PC video signal generator
Preparation before Adjustments	Adjustments of contrast and white balance shall be completed beforehand. The <PICTURE ADJ.> of the <MAIN MENU> shall be initialized.
Signals to be used	• VGA video signal 640 × 480 dots (Horizontal frequency: 31.5KHz, Vertical frequency: 60Hz) Gray scale pattern (2% STEP)

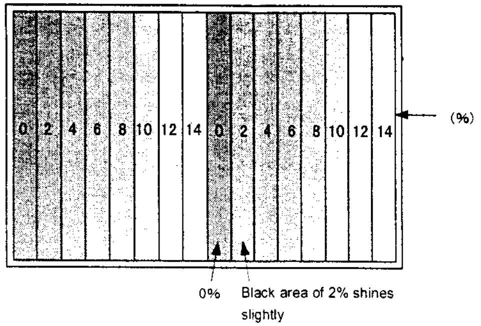
1. Input the signal to PC terminal.
2. Adjust the <SERVICE MENU>signal block SL02 so that the black area of 2% shines slightly and the black area of 0% does not shine with the brightness more than the pre-discharge brightness on the panel screen. (Care must be taken not to make the panel screen with the state of "black embossment".)



33. Bright (480i)

Measuring Instruments	Video signal generator
Preparation before Adjustments	Adjustments of contrast and white balance shall be completed beforehand. The <PICTURE ADJ.> of the <MAIN MENU> shall be initialized.
Signals to be used	480i video signal - Gray scale pattern (2% STEP)

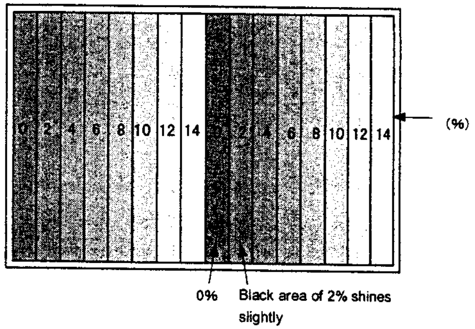
1. Input the signal to COMPONENT terminal.
2. Adjust the <SERVICE MENU>signal block SG11 so that the black area of 2% shines slightly and the black area of 0% does not shine with the brightness more than the pre-discharge brightness on the panel screen.
(Care must be taken not to make the panel screen with the state of "black embossment".)



34. Bright (480p)

Measuring Instruments	Video signal generator
Preparation before Adjustments	Adjustments of contrast and white balance shall be completed beforehand. The <PICTURE ADJ.> of the <MAIN MENU> shall be initialized.
Signals to be used	480p video signal - Gray scale pattern (2% STEP)

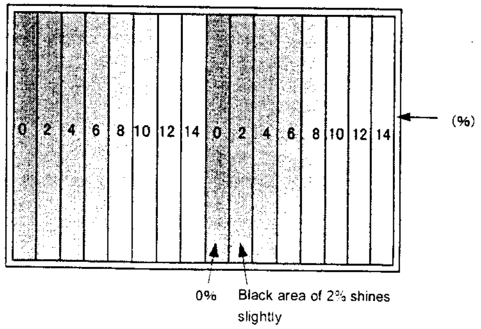
1. Input the signal to COMPONENT terminal.
2. Adjust the <SERVICE MENU>signal block SI11 so that the black area of 2% shines slightly and the black area of 0% does not shine with the brightness more than the pre-discharge brightness on the panel screen.
(Care must be taken not to make the panel screen with the state of "black embossment".)



35. Bright (720p)

Measuring Instruments	Video signal generator
Preparation before Adjustments	Adjustments of contrast and white balance shall be completed beforehand. The <PICTURE ADJ.> of the <MAIN MENU> shall be initialized.
Signals to be used	720p video signal - Gray scale pattern (2% STEP)

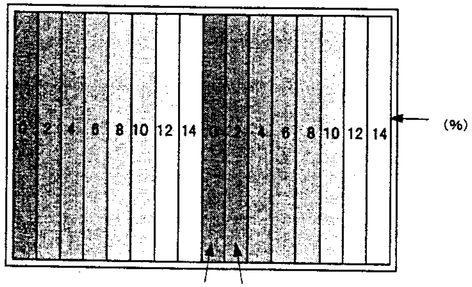
1. Input the signal to COMPONENT terminal.
2. Adjust the <SERVICE MENU>signal block SJ11 so that the black area of 2% shines slightly and the black area of 0% does not shine with the brightness more than the pre-discharge brightness on the panel screen.
(Care must be taken not to make the panel screen with the state of "black embossment".)



36. Bright (1080i)

Measuring Instruments	Video signal generator
Preparation before Adjustments	Adjustments of contrast and white balance shall be completed beforehand. The <PICTURE ADJ.> of the <MAIN MENU> shall be initialized.
Signals to be used	1080i video signal - Gray scale pattern (2% STEP)

1. Input the signal to COMPONENT terminal.
2. Adjust the <SERVICE MENU> signal block SK11 so that the black area of 2% shines slightly and the black area of 0% does not shine with the brightness more than the pre-discharge brightness on the panel screen.
   (Care must be taken not to make the panel screen with the state of "black embossment".)

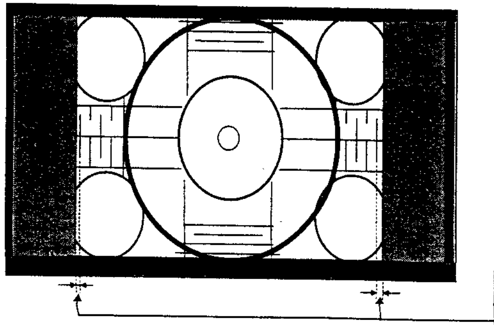


0%　Black area of 2% shines slightly

37. NTSC horizontal screen position (REGULAR)

Measuring Instruments	Video signal generator
Signals to be used	Video signal NTSC - monoscope pattern or cross-hatch pattern

1. Input the signal to VIDEO A.
2. Change ASPECT to REGULAR after the steps of < MAIN MENU > → < FUNCTION SELECT >.
3. Adjust the <SERVICE MENU>SIZE/POSITION block DA18 so that the horizontal screen is positioned at the same distance from both sides.

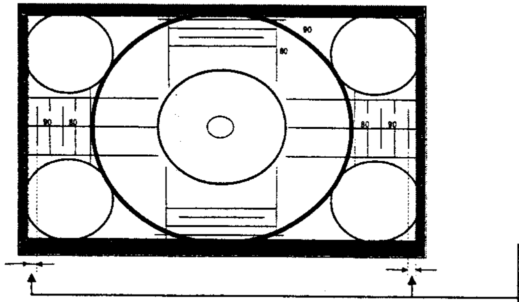


Adjust the position so that it becomes at the same distance from the frame on both sides.

38. NTSC Horizontal screen position (FULL, ZOOM, PANORAMIC)

Measuring Instruments	Video signal generator
Signals to be used	Video signal NTSC - Monoscope pattern or cross-hatch pattern

1. Input the signal to VIDEO A.
2. Change ASPECT to FULL after the steps of < MAIN MENU > → < FUNCTION SELECT >.
3. Adjust the <SERVICE MENU>SIZE/POSITION block DB18 so that the horizontal screen position is placed on the same distance from the left and right sides.
4. Change ASPECT to ZOOM.
5. Adjust the <SERVICE MENU> SIZE/POSITION block DC18 so that the horizontal screen position is placed on the same distance from the left and right sides.
6. Change ASPECT to PANORAMIC.
7. Adjust the <SERVICE MENU>SIZE/POSITION block DD18 so that the horizontal screen position is placed on the same distance from the left and right sides.

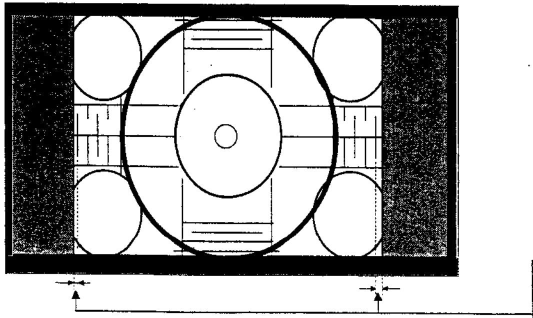


Adjust the position so that it becomes at the same distance from the frame on both sides.

39. PAL horizontal screen position (REGULAR)

Measuring Instruments	Video signal generator
Signals to be used	Video signal PAL - monoscope pattern or cross-hatch pattern

1. Input the signal to VIDEO A.
2. Change ASPECT to REGULAR after the steps of < MAIN MENU > → < FUNCTION SELECT >.
3. Adjust the <SERVICE MENU> SIZE/POSITION block DE18 so that the horizontal screen is positioned at the same distance from both sides.

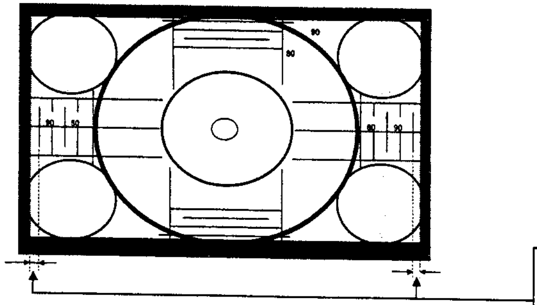


Adjust the position so that it becomes at the same distance from the frame on both sides.

40. PAL Horizontal screen position (FULL, ZOOM, PANORAMIC)

Measuring Instruments	Video signal generator
Signals to be used	Video signal PAL - Monoscope pattern or cross-hatch pattern

1. Input the signal to VIDEO A.
2. Change ASPECT to FULL after the steps of < MAIN MENU > → < FUNCTION SELECT >.
3. Adjust the <SERVICE MENU> SIZE/POSITION block DF18 so that the horizontal screen position is placed on the same distance from the left and right sides.
4. Change ASPECT to ZOOM.
5. Adjust the <SERVICE MENU> SIZE/POSITION block DG18 so that the horizontal screen position is placed on the same distance from the left and right sides.
6. Change ASPECT to PANORAMIC.
7. Adjust the <SERVICE MENU> SIZE/POSITION block DH18 so that the horizontal screen position is placed on the same distance from the left and right sides.

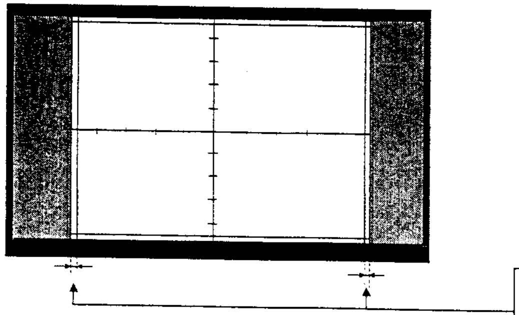


Adjust the position so that it becomes at the same distance from the frame on both sides.

41. 480p Horizontal screen position (NORMAL)

Measuring Instruments	Video signal generator
Signals to be used	480 p video signal - Position adjusting pattern or cross-hatch pattern

1. Input the signal to COMPONENT terminal.
2. Change ASPECT to REGULAR after the steps of < MAIN MENU > → < FUNCTION SELECT >.
3. Adjust the <SERVICE MENU> SIZE/POSITION block DI18 so that the horizontal screen is positioned at the same distance from both sides.

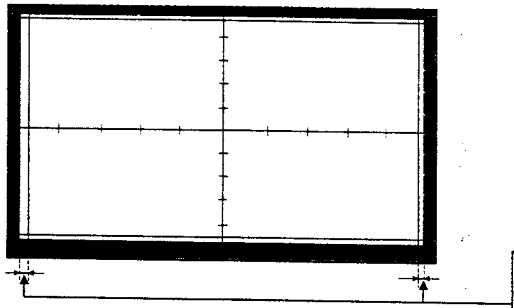


Adjust the position so that it becomes at the same distance from the frame on both sides.

42. 480p Horizontal screen position (FULL)

Measuring Instruments	Video signal generator
Signals to be used	480 p video signal - Position adjusting pattern or cross-hatch pattern

1. Input the signal to COMPONENT terminal.
2. Change ASPECT to REGULAR after the steps of < MAIN MENU > → < FUNCTION SELECT >.
3. Adjust the <SERVICE MENU> SIZE/POSITION block DJ18 so that the horizontal screen is positioned at the same distance from both sides.

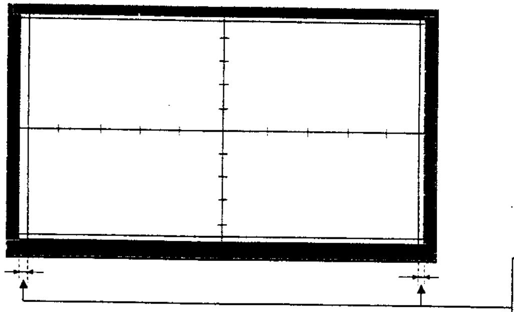


Adjust the position so that it becomes at the same distance from the frame on both sides.

43. 720p Horizontal screen position

Measuring Instruments	Video signal generator
Signals to be used	720p video signal - Position adjusting pattern or cross-hatch pattern

1. Input the signal to COMPONENT terminal.
2. Adjust the <SERVICE MENU> SIZE/POSITION block DK18 so that the horizontal screen is positioned at the same distance from both sides.

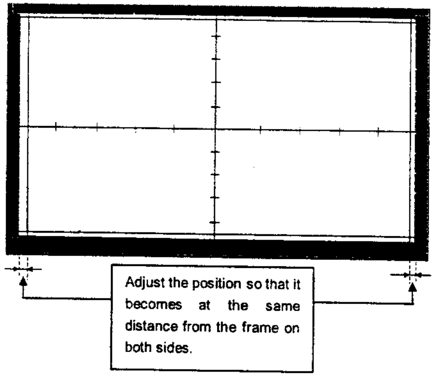


Adjust the position so that it becomes at the same distance from the frame on both sides.

44. 1080i Horizontal screen position

Measuring Instruments	Video signal generator
Signals to be used	1080i video signal - Position adjusting pattern or cross-hatch pattern

1. Input the signal to COMPONENT terminal.
2. Adjust the <SERVICE MENU> SIZE/POSITION block DL18 so that the horizontal screen is positioned at the same distance from both sides.



Adjust the position so that it becomes at the same distance from the frame on both sides.

45. PC horizontal screen position

Measuring Instruments	PC video signal generator
Signals to be used	PC video signal - circle pattern or cross-hatch pattern

1. Input the signal to PC terminal.
2. Make sure that the ∗-mark is shown after the frequency status indication such as 24KHz and 56Hz.
3. Change ASPECT to REGULAR after the steps < MAIN MENU > → < FUNCTION SELECT >.
4. Check the both ends of the left and right sides of the screen position and adjust the <SERVICE MENU>[A] (DO18 when PC98 is used) so that the horizontal screen position is centered.
5. Change ASPECT to FULL after the steps < MAIN MENU > → < FUNCTION SELECT >.
6. Check the both ends of the left and right sides of the screen position and adjust the <SERVICE MENU>[B] (DP18 in case where PC98 is used) so that the horizontal screen position is centered.
7. Make the same adjustments for the preset signal given below.

No.	PRESET SIGNAL	FREQUENCY		NUMBER OF EFFECTIVE PIXELS		SERVICE NO. FOR SERVICE	
		HORIZONTAL (kHz)	VERTICAL (Hz)	HORIZONTAL (dot)	VERTICAL (dot)	NORMAL [A]	FULL [B]
1	PC98	24.82	56.42	640	400	DO18	DP18
2	VGA400-70	31.47	70.09	640	400	DM18	DN18
3	VGA-60	31.47	59.94	640	480	DQ18	DR18
4	VGA-72	37.86	72.81	640	480	DS18	DT18
5	VGA-75	37.50	75.00	640	480	DU18	DV18
6	MAC13"	35.00	66.67	640	480	DW18	DX18
7	SVGA-56	35.16	56.25	800	600	DZ18	DAA18
8	SVGA-60	37.88	60.32	800	600	DAB18	DAC18
9	SVGA-72	48.08	72.19	800	600	DY18	
10	XGA-60	48.36	60.00	1024	768	DAD18	
11	XGA-70	56.48	70.07	1024	766	DAE18	
12	RGB15K-60Hz	15.73	59.94	768	485	DAF18	DAG18

OPERATING INSTRUCTIONS

JVC

INSTRUCTION

GD-V4200PZW
GD-V4200PZW-G

ENGLISH

For Customer Use:

Enter below the Serial No. which is located on the rear of the cabinet. Retain this information for future reference.

Model No. : GD-V4200PZW/GD-V4200PZW-G
Serial No. :

PLASMA DISPLAY MONITOR

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Thank you for purchasing this JVC monitor.
Before using the monitor, read this manual carefully so that you know how to use the monitor correctly.
Refer to this manual whenever questions or problems about operation arise. Be sure to read and observe the safety precautions.
Keep this manual where the user can see it easily.
** Installation and removal require special expertise. Consult your product dealer for details.*

Sep. 1999 No.51566

Safety Precautions

FCC NOTICE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Changes or modifications not approved by JVC could void the user's authority to operate the equipment.

IMPORTANT INFORMATION

WARNING: This is Class B product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

WARNING: TO REDUCE THE RISK OF FIRE AND ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

IMPORTANT SAFEGUARDS

Electrical energy can perform many useful functions. This unit has been engineered and manufactured to assure your personal safety. But **IMPROPER USE CAN RESULT IN POTENTIAL ELECTRICAL SHOCK OR FIRE HAZARD.** In order not to defeat the safeguards incorporated into this product, observe the following basic rules for its installation, use and service. Please read these "Important Safeguards" carefully before use.

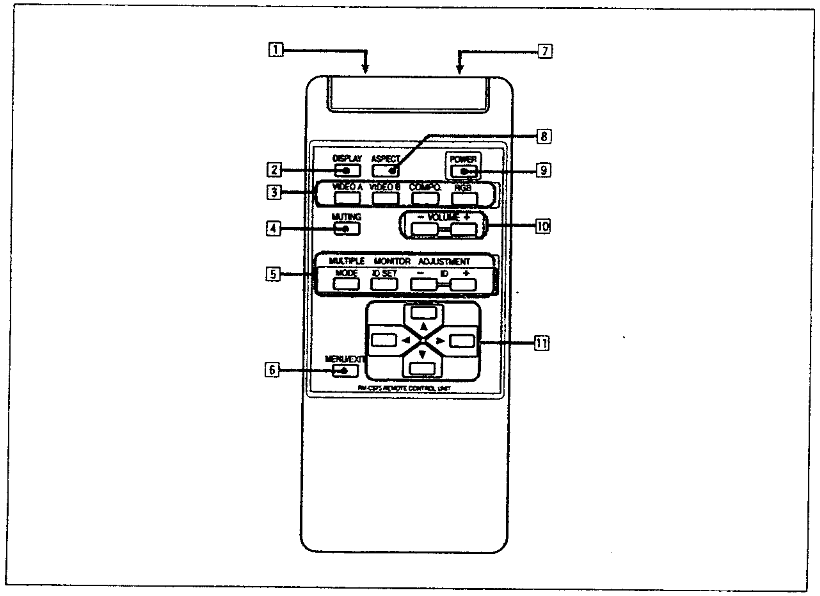
- All the safety and operating instructions should be read before the product is operated.
- The safety and operating instructions should be retained for future reference.
- All warnings on the product and in the operating instructions should be adhered to.
- All operating instructions should be followed.
- Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
- Do not use attachments not recommended by the product manufacturer as they may be hazardous.
- Do not use this product near water. Do not use immediately after moving from a low temperature to high temperature, as this causes condensation, which may result in fire, electric shock, or other hazards.
- Do not place this product on an unstable cart, stand, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. The product should be mounted according to the manufacturer's instructions, and should use a mount recommended by the manufacturer.
- When the product is used on a cart, care should be taken to avoid quick stops, excessive force, and uneven surfaces which may cause the product and cart to overturn, damaging equipment or causing possible injury to the operator.

- Slots and openings in the cabinet are provided for ventilation. These ensure reliable operation of the product and protect it from overheating. These openings must not be blocked or covered. (The openings should never be blocked by placing the product on bed, sofa, rug, or similar surface. It should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided and the manufacturer's instructions have been adhered to.)

  For proper ventilation, separate the product from other equipment, which may prevent ventilation and keep distance more than 10 cm (3 $^{15}/_{16}$ inches).
- This product should be operated only with the type of power source indicated on the label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company.
- This product is equipped with a three-wire plug. This plug will fit only into a grounded power outlet. If you are unable to insert the plug into the outlet, contact your electrician to install the proper outlet. Do not defeat the safety purpose of the grounded plug.
- Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them. Pay particular attention to cords at doors, plugs, receptacles, and the point where they exit from the product.
- For added protection of this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the cable system. This will prevent damage to the product due to lightning and power line surges.
- Do not overload wall outlets, extension cords, or convenience receptacles on other equipment as this can result in a risk of fire or electric shock.
- Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.
- Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltages and other hazards. Refer all service to qualified service personnel.
- Unplug this product from the wall outlet and refer service to qualified service personnel under the following conditions:
  - a) When the power supply cord or plug is damaged.
  - b) If liquid has been spilled, or objects have fallen on the product.
  - c) If the product has been exposed to rain or water.
  - d) If the product operated normally by following the operating instructions. Adjust only those controls that are covered by the Operation Manual, as an improper adjustment of controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal operation.
  - e) If the product has been dropped or damaged in any way.
  - f) When the product exhibits a distinct change in performance – this indicates a need for service.
- When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or with same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
- Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.
- The product should be placed more than 30 cm (11 $^{15}/_{16}$ inches) away from heat sources such as radiators, heat registers, stoves, and other products (including amplifiers) that produce heat.
- When connecting other products such as VCR's, and personal computers, you should turn off the power of this product for protection against electric shock.
- Do not place combustibles behind the cooling fan. For example, cloth, paper, matches, aerosol cans or gas lighters that present special hazards when over heated.
- Use only the accessory cord designed for this product to prevent shock.

Parts Identification

Remote Control



1 **Remote signal transmission window**

2 **DISPLAY button (page 12)**
Use this button to display the input terminal, color system (for VIDEO A or B input), scan system (for COMPONENT input) and horizontal/vertical frequency (for RGB input).
Pressing the button again will make the display disappear.

3 **VIDEO A, VIDEO B, COMPO., and RGB buttons (page 12)**
Use these buttons to switch between inputs.

4 **MUTING button (page 12)**
Use this button to turn off the volume immediately.
Pressing the button again will resume the previous volume level.

5 **MULTIPLE MONITOR ADJUSTMENT button (page 24)**
Use these buttons to set IDs, etc. when serial connection is made.

6 **MENU/EXIT button**
Use this button to display or erase menus.
While a sub-menu is displayed, pressing this button will move you one screen back to the preceding menu.

7 **Remote control cable jack (page 24)**
Connect the remote control cable when using this remote control as a wired remote control.

8 **ASPECT button (page 13)**
Use this button to switch between aspect ratios. Each time you press the button, the aspect ratio changes as follows:

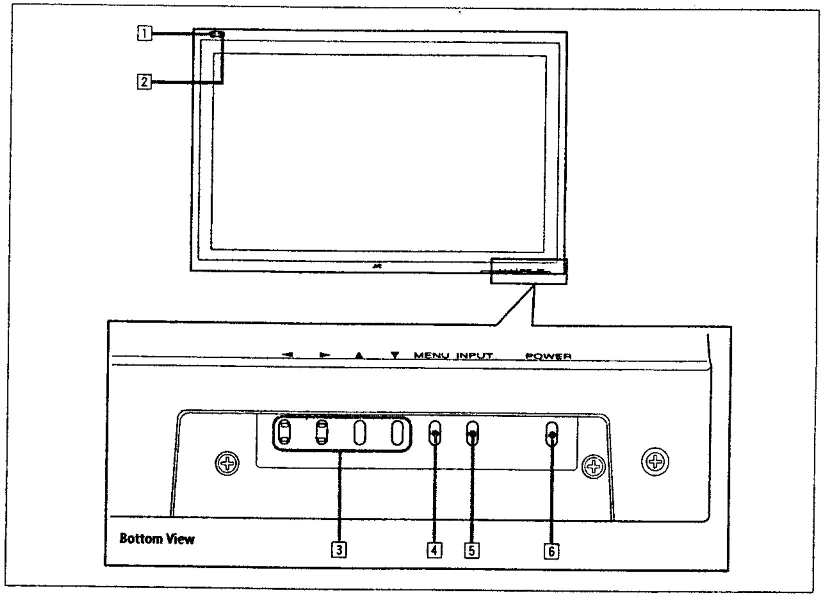
→ REGULAR → FULL
PANORAMIC ← ZOOM ←

9 **POWER button (page 12)**
Use this button to turn on /off the power.

10 **VOLUME + / – button (page 12)**
Use this button to adjust the volume level.

11 **◄ / ► / ▲ / ▼ buttons**
Use these buttons to select menu items or make adjustments.

Monitor: Front View



1 **Remote sensor/power lamp**
Point the front end of the wireless remote control toward here.
When the Monitor is turned on, the power lamp glows green. It glows red in standby mode.

2 **Self-diagnostic lamps (page 29)**
These lamps light/flash if something abnormal occurs with the Monitor.

3 **◄ / ► / ▲ / ▼ buttons**
Use these buttons to select menu items and to make adjustments.
- When no menu is displayed, you can use the ▲ / ▼ buttons to adjust the volume level.

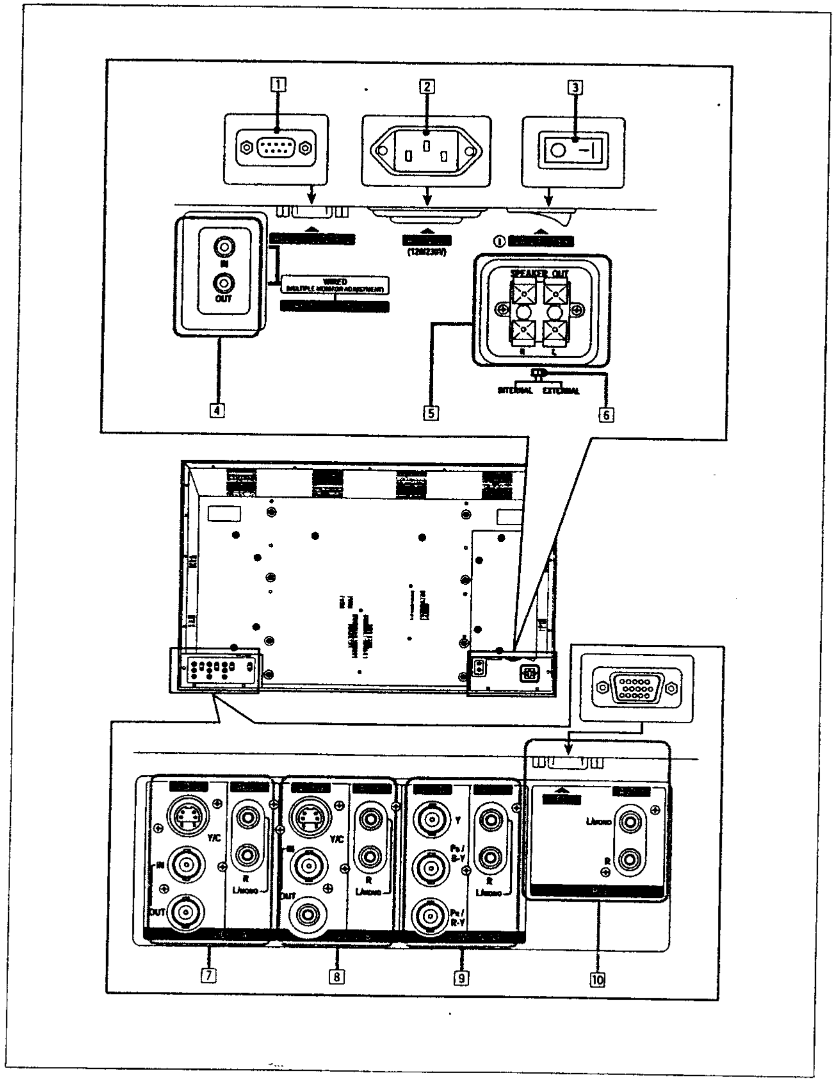
4 **MENU button**
Use this button to display or erase menus.
While a sub-menu is displayed, pressing this button will move you one screen back to the preceding menu.

5 **INPUT button (page 12)**
Use this button to switch between inputs.

6 **POWER button (page 12)**
Use this button to turn on and off the Monitor.

Parts Identification (Continued)

Monitor: Rear View



1 RS-232C CONTROL Input terminal (D-sub, 9-pin) (page 11)
Connect this terminal to the RS-232C terminal of a personal computer.
- For the control method using this terminal, consult an authorized JVC dealer.

2 AC INPUT terminal (page 11)
Connect the supplied power cord to this terminal.

3 MAIN POWER switch (page 12)
Setting this switch to ON will put the Monitor into standby mode, allowing you to turn on and off the power using the POWER button either on the remote control or on the Monitor.

4 REMOTE CONTROL terminals (mini jack) (page 24)
- IN
  For Master Monitor: Connect a wired remote control to this terminal for serial connection.
  For Slave Monitors: Connect to the REMOTE CONTROL OUT terminal of another Monitor in serial connection.
- OUT
  Connect to the REMOTE CONTROL IN terminal of anther Monitor for serial connection.

5 SPEAKER OUT terminals (page 11)
Connect external speakers.

6 INTERNAL/EXTERNAL (built-in speaker/external speaker) selecting switch (page 11)
INTERNAL: To use built-in speakers.
EXTERNAL: To use external speakers.

7 VIDEO A terminals (page 11)
- Y/C (S video) input terminal (BNC)
  Connect this terminal to the S-video output terminal of a VCR, etc.
- Video input terminal (BNC)
  Connect this terminal to the video output terminal of a VCR, etc. You can also use it as a video output terminal.
- Video output terminal (BNC)
  Connect this terminal to the video input terminal of another Monitor. You can also use it as a video input terminal.
- Audio input terminals (pin jack)
  Connect these terminals to the audio input terminals of a VCR, etc.

8 VIDEO B terminals (page 11)
- Y/C (S video) input terminal (BNC)
  Connect this terminal to the S-video output terminal of a VCR, etc.
- Video input terminal (BNC)
  Connect this terminal to the video output terminal of a VCR, etc. You can also use it as a video output terminal.
- Video output terminal (pin jack)
  Connect this terminal to the video input terminal of another Monitor.
  You can also use it as a video input terminal.
- Audio input terminals (pin jack)
  Connect these terminals to the audio output terminals of a VCR, etc.

Notes:
- Since the video output terminals on this Monitor are loop-though terminals, the devices connected to these video output terminals should be correctly terminated. Otherwise, picture becomes abnormally bright.
- When both the video and S-video terminals are connected, the S-video terminal will have priority.

9 COMPONENT input terminal (page 11)
- Y, P_B/B-Y, P_R/R-Y input terminals (BNC)
  Connect these terminals to the component signal output terminals of NTSC or high-vision equipment.
- Audio input terminals (pin jack)
  Connect these terminals to the audio output terminals of another equipment.

10 RGB input terminals (page 11)
- PC input terminal (D-sub, 15-pin)
  Connect this terminal to the video output terminal of a personal computer.
- Audio input terminals (pin jack)
  Connect these terminals to the audio output terminals of a personal computer.

Preparations

Checking the Accessories

The following accessories are included with the Monitor. Check for them. If any item is missing, please contact the dealer where you purchased the Monitor.

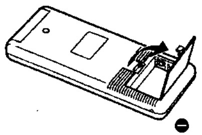
- Remote control (RM-C575) x 1
- Remote control cable x 1
- Power cord (approx. 2.5 m) x 3 (Use the one matching the wall outlet.)
- Batteries (AA/R6P) x 2

Installing the Batteries

Put the batteries in the remote control as follows. If the remote control has become erratic in operation, change the batteries.

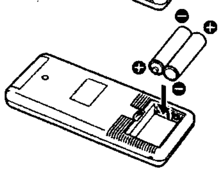
1 Remove the back cover.

While pushing the release lever on the cover, remove the cover in the direction of the arrow.



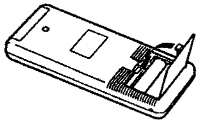
2 Place the batteries.

Put the two supplied batteries (AA/R6P), noting the ⊕ and ⊖ markings, as shown.



3 Replace the back cover as illustrated.

Make sure the release lever on the cover is locked in place correctly.



Precautions for using batteries

If batteries are used improperly, the liquid could leak out, causing a fire, injury, etc. or dirtying the vicinity.
Take notice of the following:

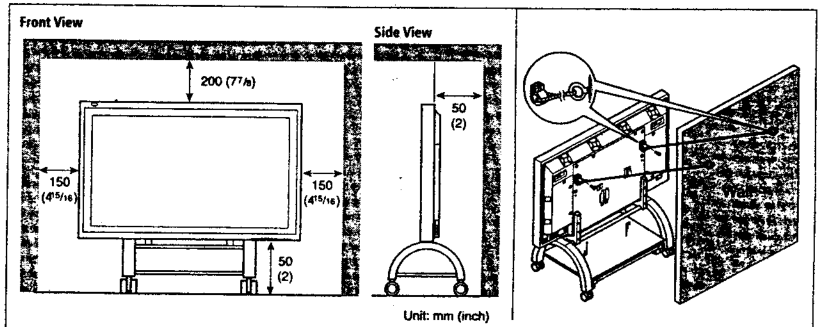
- Do not mix old and new batteries.
- Do not mix different types of battery as different types may have different characteristics.
- Place the batteries according to the ⊕ and ⊖ markings indicated on the battery compartment.
- When installing the batteries, insert the ⊖ end first to avoid a short circuit.
- Use only the specified batteries.
- When you are not using the remote control for a long time, remove the batteries.
- When the batteries have reached the end of their life, replace them with new ones immediately. Otherwise, the liquid may leak out, or malfunction may be caused by the leaked liquid. If the leaked liquid contacts your skin, wipe off the liquid with a soft cloth. If the affected skin is left as is, you may get a rough skin.
- Do not throw the batteries into fire or try recharging them.
- The service life of batteries is six months to one year for normal use. The supplied batteries are only for checking the operation and their life may be shorter. When the remote control operation becomes erratic, replace with new batteries.

Installation

Precautions

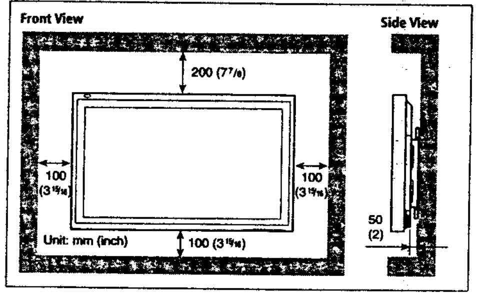
- **When mounting the Monitor vertically, it is necessary to reset the cooling fan to have better heat dissipation. Consult your dealer for the appropriate fan setting.**
- When installing the Monitor, be sure to use a dedicated Stand Unit, Wall Mounting Unit, or Monitor Hanger Unit, depending on a particular case. Ask your dealer for installation.
- When installing the Monitor, refer also to the user manual for each option to use. Do not tilt the Monitor rightward, leftward, or backward.
- Route the power cord and connection cables along wall or floor corners to avoid walking on them.
- For good heat dissipation, try to leave the following distances of space (minimum) around the Monitor.
- The ambient temperature of the installation place should be within the range of 0℃ to 40℃.

When installing the Monitor on a stand

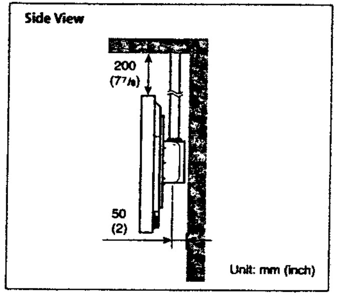


Take measures against the Monitor from overturning.
To protect against abnormal events such as earthquakes and to prevent unexpected accidents, take appropriate measures for preventing the Monitor from overturning; should it overturn, this could lead to personal injury.
For detailed information, refer to the manual supplied for the stand.

When mounting the Monitor on the wall



When hanging the Monitor from the ceiling



Notes:

- Do not allow the same image (pattern) to be continuously displayed on the screen for a long time; otherwise, the area on the screen corresponding to the image may vary in brightness, leaving an afterimage on the screen. To reduce the afterimage, you can use the White Back function (see page 22).
- Viewing the screen continuously for long hours may fatigue your eyes. It is recommended that you watch the Monitor at an appropriate distance. (A rough guide is at a distance of 3 x the vertical length of the screen or over.)
- The Monitor is manufactured using very high-precision technology, allowing for more than 99.99% active pixels, however, be aware that only a slight number of pixels may be deficient or lit at all times.
- Do not install the Monitor in such a way that the Monitor and other AV equipment affect each other adversely. (For example, if a disturbed image or noise due to electromagnetic interference occurs, or if the infrared remote control malfunctions, change the installation place.)

Connections

Precautions

- Before making connections, turn off all the equipment.
- Plugs should be firmly inserted; poor connection could cause noise.
- To unplug a cord, be sure to grasp its plug and pull it out.
- Connect the power cord after having finished all other connections.
- Refer also to the user manual of each piece of equipment.

Available Signals

Video signals

The following signals can be input to this Monitor:

- VIDEO A and VIDEO B terminals accept — PAL, NTSC, and SECAM signals.
- COMPONENT terminals accept — 480i, 576i, 480p, 720p, and 1080i signals.

Computer signals (Preset and user-defined video modes)

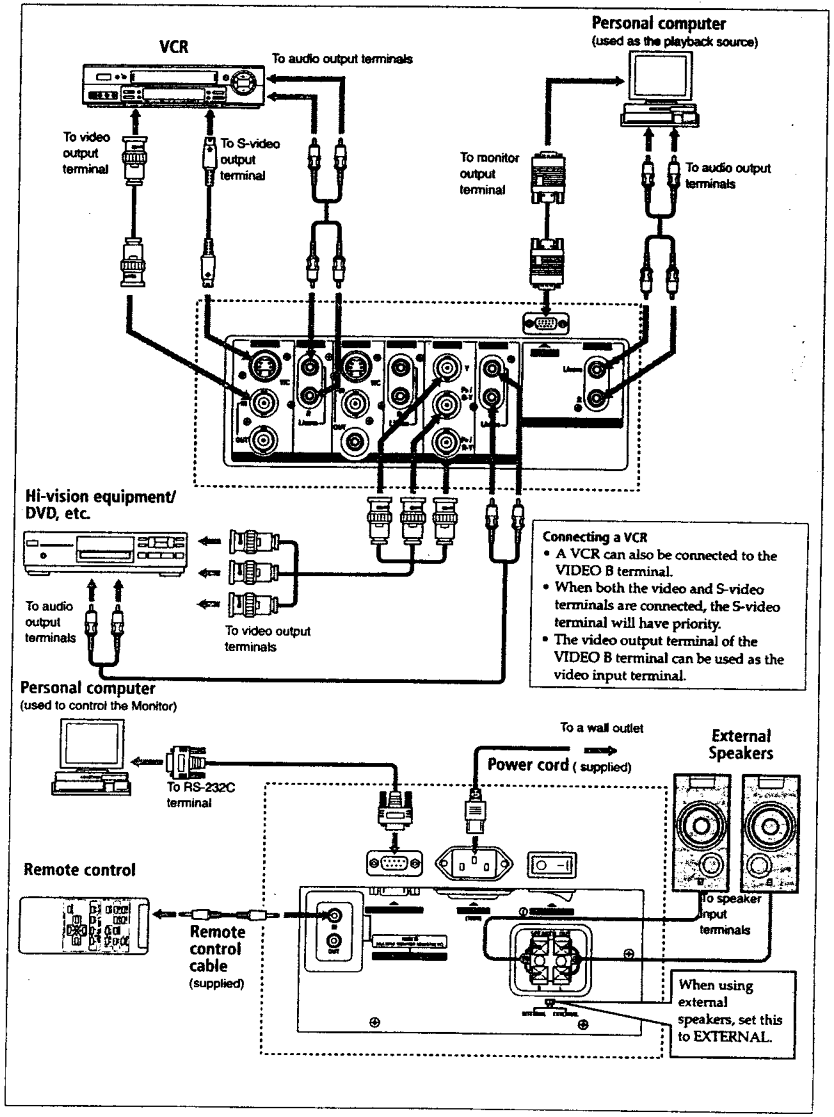
This Monitor has 13 preset video mode for the most popular industrial standard (marked with ● in the table below), and the signals of the following image resolutions can be input to the RGB input terminals.
For less common video modes, this Monitor can also display a picture, and memorize the video modes as user-defined video modes (up to five modes).
When a signal other than any of the preset modes is input, it will automatically be stored as a user-defined video mode, and when a sixth user-defined video signal is input, the first mode will be erased from memory.

No.	Signal name	Screen resolution		Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Scan system	Preset setting
		Horizontal	Vertical				
1	PC98	640	400	24.8	56.4	Non-interlace	●
2	VGA400-70	640	400	31.5	70.1	Non-interlace	●
3	VGA480-60	640	480	31.5	59.9	Non-interlace	●
4	VGA480-72	640	480	37.9	72.8	Non-interlace	●
5	VGA480-75	640	480	37.5	75.0	Non-interlace	●
6	MAC13"	640	480	35.0	66.7	Non-interlace	●
7	SVGA-56	800	600	35.2	56.3	Non-interlace	●
8	SVGA-60	800	600	37.9	60.3	Non-interlace	●
9	SVGA-72	800	600	48.1	72.2	Non-interlace	●
10	XGA-60	1024	768	48.4	60.0	Non-interlace	●
11	XGA-70	1024	768	56.5	70.1	Non-interlace	●
12	RGB15K-60	—	—	15.7	59.9	Interlace	●
13	RGB15K-50	—	—	15.6	50.0	Interlace	●
-	User-defined	—	—	15.0 – 16.0	50.0 – 75.0	Interlace	
-	User-defined	—	—	16.0 – 56.0	50.0 – 75.0	Non-interlace	

Notes:

- When No.9 to No.11 signals come in, the aspect ratio is fixed to REGULAR and does not change to a wide screen even if you press ASPECT.
- When a signal other than listed above is input, a part of the screen may become void or an unnecessary picture may appear.
- Signals, though they are within the acceptable range of frequencies, may not be displayed normally, depending on the signal type.
- Depending on the connected equipment, the Monitor may not be compatible with composite sync (Cs) or G on sync signals.
- When a preset mode signal is input, the vertical frequency displayed on the screen will have an "*" shown at its right top position.
- When No. 7 to No. 11 signals are input, thin lines may happen to be hard to view on the screen, due to the internal digital processing.

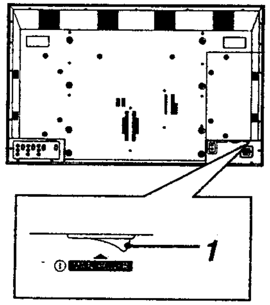
Connection Examples

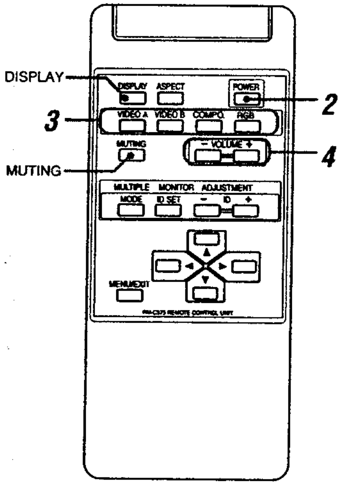

VCR
To audio output terminals
To video output terminal
To S-video output terminal
Personal computer
(used as the playback source)
To monitor output terminal
To audio output terminals
Hi-vision equipment/ DVD, etc.
To audio output terminals
To video output terminals
Personal computer
(used to control the Monitor)
To RS-232C terminal
To a wall outlet
Power cord (supplied)
External Speakers
Remote control
Remote control cable
(supplied)
To speaker input terminals
When using external speakers, set this to EXTERNAL.

Connecting a VCR

- A VCR can also be connected to the VIDEO B terminal.
- When both the video and S-video terminals are connected, the S-video terminal will have priority.
- The video output terminal of the VIDEO B terminal can be used as the video input terminal.

Rear View





Daily Operations

1 Turn on the main power.

Set MAIN POWER on the back of the Monitor to ON.
The POWER lamp on the upper left of the front panel glows red.

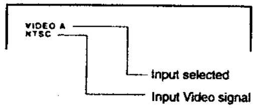
2 Turn on the power.

Press POWER on the remote control to turn the power on.
The POWER lamp changes to glow green.

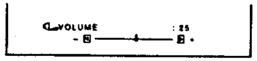
3 Select an input.

Select the desired input by pressing VIDEO A, VIDEO B, COMPO. or RGB.

Ex. When selecting "VIDEO A" input



4 Adjust the volume.



Notes:

- While no menu is displayed, you can adjust the volume by pressing ▲/▼ on the Monitor.
- You can also select the input by pressing INPUT on the Monitor. Each time you press the button, the input mode changes in sequence.
- When the INTERNAL/EXTERNAL selecting switch on the back of the Monitor is set to EXTERNAL, no sounds come out of the built-in speakers.
  When you want to hear audio sound from the built-in speakers, set the INTERNAL/EXTERNAL selecting switch to INTERNAL.

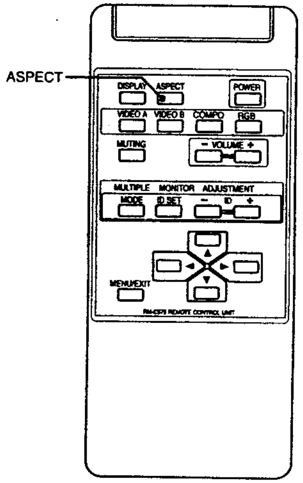
To turn off the volume immediately

Press MUTING.
"MUTING ON" is displayed, and the sound goes out.
Pressing the button again resumes the previous volume level.

To make the screen indication appear

Press DISPLAY.
The types of input and signal are indicated on the screen.
Pressing the button again will make the screen indication disappear.
You can also make the screen indication appear using menus (page 20).

Changing the Aspect Ratio



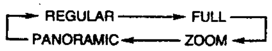
Precautions for using the screen mode switching function

- This Monitor features a screen mode switching (aspect ratio change) function. If you select a mode different in aspect ratio from software such as TV programs, the picture may look different from original picture. Be aware of this point when you are selecting a screen mode.
- If you select a wide screen mode while viewing conventional video programs of the aspect ratio 4:3, some portions (edges) of the original picture will be cut off, or deformed. To enjoy the original picture as it is, select "REGULAR" while viewing such programs.
- If you place the Monitor in a tea room, hotel, etc. for business purposes or public viewing and modify the picture by using the screen mode switching (aspect ratio change) function, this could violate the copyright protected by the copyright law, which requires your special attention.
- If you make the screen very bright and watch programs selecting "REGULAR" for a long period of time, the Monitor screen may happen to be burned in. If this occurs, watching programs using a wide screen mode for a while will reduce the burn-in gradually.

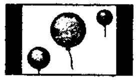
With this Monitor, you can select among three types of wide screens (FULL, ZOOM, and PANORAMIC) in addition to the REGULAR screen of conventional 4:3 aspect ratio.

Press ASPECT to select the screen size

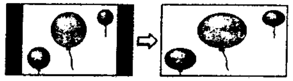
Each time you press the button, the screen size changes as follows:



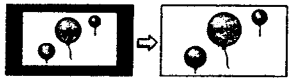
REGULAR: Displays at conventional 4:3 aspect ratio.



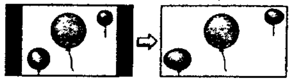
FULL: REGULAR size display is enlarged horizontally.



ZOOM: REGULAR size display is enlarged vertically and horizontally at the same ratio.



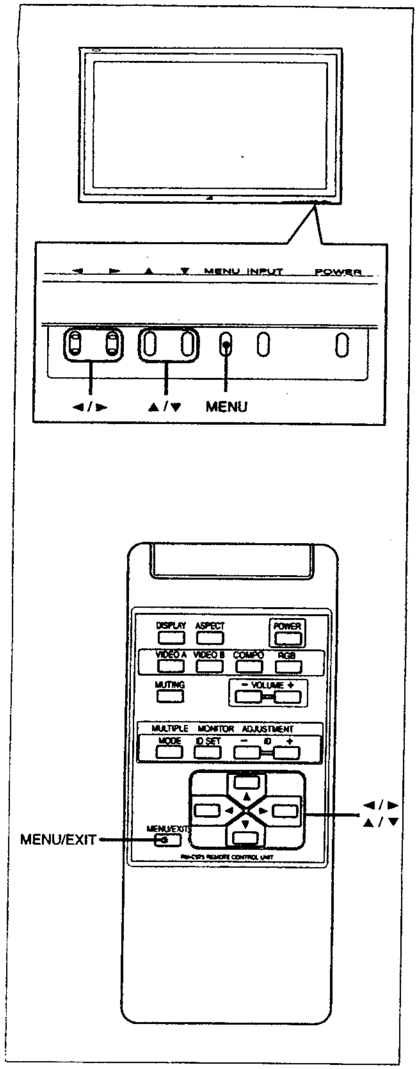
PANORAMIC: REGULAR size display is enlarged horizontally to the extent that the picture does not look abnormally.



Notes:

- When one of the following signals is being input, the aspect ratio is fixed and cannot be changed.
  Aspect ratio is fixed to REGULAR: When SVGA-72, XGA-60, or XGA-70 signal comes in (through the RGB input terminals)
  Aspect ratio is fixed to FULL: When 1080i or 720p signal comes in (through the COMPONENT input terminals)
  When 480p signal (through the COMPONENT input terminals) and any other signals than SVGA-72, XGA-60, and XGA-70 signal comes in (through the RGB input terminals), you can select only REGULAR and FULL.
- The aspect ratio can also be changed on the Function Selection Menu (page 18).

Video Adjustments


◄ ► ▲ ▼ MENU INPUT POWER
◄/►
▲/▼
MENU
DISPLAY
ASPECT
POWER
VIDEO A
VIDEO B
COMPO
RGB
MUTING
– VOLUME +
MULTIPLE MONITOR ADJUSTMENT
MODE
ID SET
– ID +
MENU/EXIT
MENU/EXIT
◄/►
▲/▼
RM-C575 REMOTE CONTROL UNIT

For video adjustments, use menus.

You can use the buttons either on the remote control or on Monitor for menu operations.

- Refer also to "Menu Classifications" on pages 26 and 27.

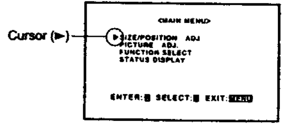
Adjusting the Screen Size and Position (For RGB input only)

While RGB input is selected, the screen size and position can be adjusted.

Adjusted settings can be stored for each signal type; therefore, when the same signal comes in, the stored settings are recalled.

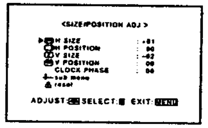
- When adjusting the size, the size cannot be adjusted proportionally, but can be enlarged rightward (or downward) only and reduced leftward (or upward) only. Therefore, it is necessary to adjust both the size and position alternately to adjust to the appropriate size.

1 Press MENU/EXIT (or MENU on the Monitor) to display the Main Menu.


Cursor (►)
<MAIN MENU>
SIZE/POSITION ADJ
PICTURE ADJ.
FUNCTION SELECT
STATUS DISPLAY
ENTER: SELECT: EXIT:MENU

2 Press ▲/▼ to move the cursor (►) to "SIZE/POSITION ADJ."

3 Press ► to display the Size/Position Adjustment Menu.


<SIZE/POSITION ADJ>
H SIZE : +01
H POSITION : 00
V SIZE : -02
V POSITION : 00
CLOCK PHASE : 00
sub menu
reset
ADJUST: SELECT: EXIT:MENU

4 Press ▲/▼ to move the cursor (►) to the item you want to adjust.

Item		Adjustment range
H (horizontal) SIZE	-80 to +80	
H POSITION	-80 to +80	
V (vertical) SIZE	-80 to +80	
V POSITION	-80 to +80	
CLOCK PHASE*	-20 to +20	
sub menu		See "To make an adjustment while viewing the adjustment bar" on the next page.
reset		See "To reset the adjustments" on the next page.

* CLOCK PHASE can be used to reduce flickering and blurring on the screen after adjusting the screen size.

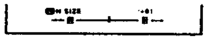
5 Press ◄/► to adjust the selected item.

6 Press MENU/EXIT (or MENU on the Monitor) twice to exit from the menu operations.

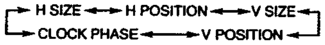
To make an adjustment while viewing the adjustment bar

After step 3 on page 14, proceed as follows:

1 **Press ▲/▼ to move the cursor (►) to "sub menu."**
2 **Press ► to display the Sub Menu.**
The Sub Menu for H SIZE appears on the screen.



3 **Press ▲/▼ to select the Sub Menu you want to adjust.**
Each time you press the button, the Sub Menu changes as follows:

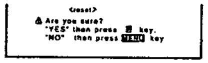

H SIZE
H POSITION
V SIZE
CLOCK PHASE
V POSITION

4 **Press ◄/► to adjust the selected item.**
5 **Repeat steps 3 and 4 to adjust the other items.**
6 **Press MENU/EXIT (or MENU on the Monitor) three times to exit from the menu operations.**

To reset the adjustments

After step 3 on page 14, proceed as follows:

1 **Press ▲/▼ to move the cursor (►) to "reset."**
2 **Press ►.**
The confirmation screen appears.


<reset>
Are you sure?
"YES" then press ► key.
"NO" then press MENU key

3 **Press ► again to reset the adjustments.**

To cancel the reset, press MENU/EXIT (or MENU on the Monitor).

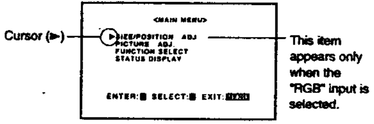
Note:

- Adjustment values for both horizontal and vertical sizes of the screen are so related that if one is adjusted up to near the maximum value, the attainable value of the other will be decreased.

Adjusting the Picture Quality

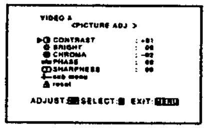
Picture quality can be set for each input mode.

1 Press MENU/EXIT (or MENU on the Monitor) to display the Main Menu.


Cursor (►)
<MAIN MENU>
SIZE/POSITION ADJ
PICTURE ADJ.
FUNCTION SELECT
STATUS DISPLAY
ENTER: SELECT: EXIT:MENU
This item appears only when the "RGB" input is selected.

2 Press ▲/▼ to move the cursor (►) to "PICTURE ADJ."

3 Press ► to display the Picture Adjustment Menu.


VIDEO A
<PICTURE ADJ >
CONTRAST : +01
BRIGHT : 00
CHROMA : -02
PHASE : 00
SHARPNESS : 00
sub menu
reset
ADJUST: SELECT: EXIT:MENU

4 Press ▲/▼ to move the cursor (►) to the item you want to adjust.

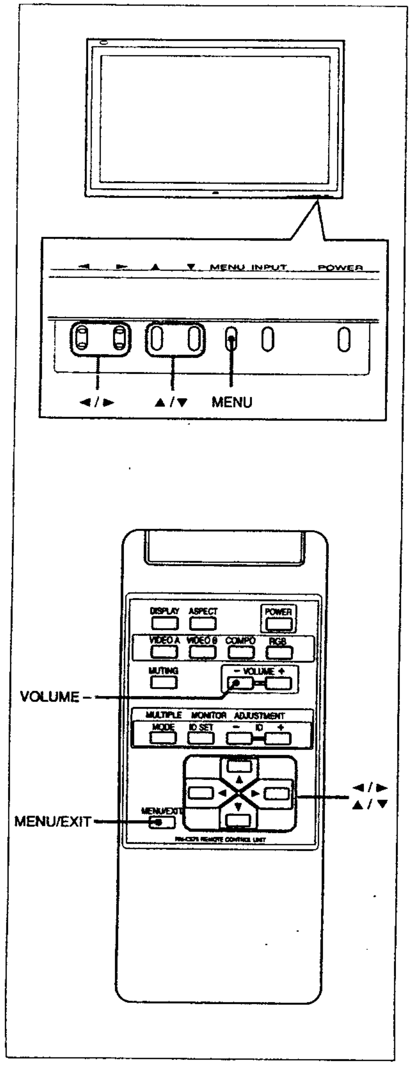
Item	Adjustment range
CONTRAST	-20 to +20
BRIGHT (brightness)	-20 to +20
CHROMA*	-20 to +20
PHASE**	-20 to +20
SHARPNESS	-20 to +20
sub menu	See "To make an adjustment while viewing the adjustment bar" on the next page.
reset	See "To reset the adjustments" on the next page.

* Adjustment is not possible when RGB input is selected.
** Adjustment is only possible when viewing NTSC signal through the VIDEO A or B terminal.

5 Press ◄/► to make adjustments.

6 Press MENU/EXIT (or MENU on the Monitor) twice to exit from the menu operations.

Video Adjustments (Continued)


MENU INPUT POWER
◄/►
▲/▼
MENU
DISPLAY
ASPECT
POWER
VIDEO A
VIDEO B
COMPO
RGB
MUTING
– VOLUME +
MULTIPLE MODE
MONITOR ID SET
ADJUSTMENT – ID +
VOLUME –
MENU/EXIT
◄/►
▲/▼

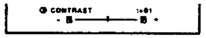
To make an adjustment while viewing the adjustment bar

After step 3 on page 15, proceed as follows:

1 **Press ▲/▼ to move the cursor (►) to "sub menu."**

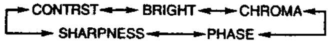
2 **Press ► to display the Sub Menu.**

The Sub Menu for CONTRAST appears on the screen.


CONTRAST
:+01
- B
B +

3 **Press ▲/▼ to select the Sub Menu you want to adjust.**

Each time you press the button, the Sub Menu changes as follows:


CONTRST
BRIGHT
CHROMA
SHARPNESS
PHASE

4 **Press ◄/► to adjust the selected item.**

5 **Repeat steps 3 and 4 to adjust the other items.**

6 **Press MENU/EXIT (or MENU on the Monitor) three times to exit from the menu operations.**

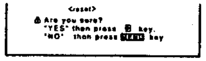
To reset the adjustments

After step 3 on page 15, proceed as follows:

1 **Press ▲/▼ to move the cursor (►) to "reset."**

2 **Press ►.**

The confirmation screen appears.


<reset>
Are you sure?
"YES" then press ► key.
"NO" then press MENU key

3 **Press ► again to reset the adjustments.**

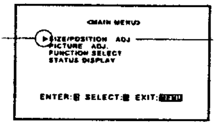
To cancel the reset, press MENU/EXIT (or MENU on the Monitor).

Adjusting the Color Temperature

The adjusted setting applies to all inputs.

1 Press MENU/EXIT (or MENU on the Monitor) to display the Main Menu.

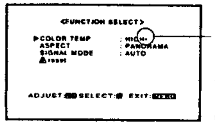
Cursor (►)


<MAIN MENU>
►SIZE/POSITION ADJ
PICTURE ADJ.
FUNCTION SELECT
STATUS DISPLAY
ENTER:► SELECT:▲▼ EXIT:MENU

This item appears only when the "RGB" input is selected.

2 Press ▲/▼ to move the cursor (►) to "FUNCTION SELECT."

3 Press ► to display the Function Selection Menu.


<FUNCTION SELECT>
►COLOR TEMP : HIGH*
ASPECT : PANORAMA
SIGNAL MODE : AUTO
reset
ADJUST:◄► SELECT:▲▼ EXIT:MENU

"*" appears only when you have adjusted the White Balance (see page 17).

4 Press ▲/▼ to move the cursor (►) to "COLOR TEMP."

5 Press ◄/► to make an adjustment.

Each time you press the button, the color temperature alternate between "HIGH" and "LOW."

HIGH: To make the screen become bluish.
LOW: To make the screen become reddish.

6 Press MENU/EXIT (or MENU on the Monitor) twice to exit from the menu operations.

To reset the setting

You can only reset the color temperature, aspect ratio (see page 18), and video signal type (see page 19) at the same time. See "Resetting the Function Selection Menu Settings" on page 19.

Note:

- To make a fine adjustment, adjust "WHITE BALANCE" (see below).

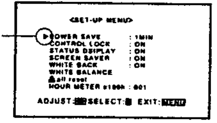
Adjusting the White Balance

G GAIN, B GAIN and R GAIN can be finely adjusted separately for "HIGH" and "LOW" settings of the color temperature.
When using plural numbers of the Monitors, this can be useful to have the same color on each screen.

1 On the remote control: Press MENU/EXIT while holding VOLUME – to display the Setup Menu.

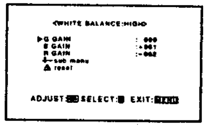
On the Monitor: Press MENU while holding ◄ to display the Setup Menu.

Cursor (►)


<SET-UP MENU>
►POWER SAVE : 1MIN
CONTROL LOCK : ON
STATUS DSIPLAY : ON
SCREEN SAVER : ON
WHITE BACK : ON
WHITE BALANCE
all reset
HOUR METER x100H : 001
ADJUST:◄► SELECT:▲▼ EXIT:MENU

2 Press ▲/▼ to move the cursor (►) to "WHITE BALANCE."

3 Press ► to display the White Balance Adjustment Menu.


<WHITE BALANCE:HIGH>
►G GAIN : 000
B GAIN : +001
R GAIN : -002
sub menu
reset
ADJUST:◄► SELECT:▲▼ EXIT:MENU

4 Press ▲/▼ to move the cursor (►) to the item you want to adjust.

5 Press ◄/► to adjust the selected item.

6 Repeat steps 4 and 5 to adjust the other items.

7 Press MENU/EXIT (or MENU on the Monitor) twice to exit from the menu operations.

Notes:

- Adjustable range will vary among the Monitors.
- "MAX" may appear soon after you begin adjustment. This is normal but not a malfunction.

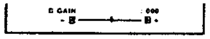
To make an adjustment while viewing the adjustment bars

After step 3 of the above procedure, proceed as follows:

1 **Press ▲/▼ to move the cursor (►) to "sub menu."**

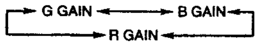
2 **Press ► to display the Sub Menu.**

The Sub Menu for G GAIN appears on the screen.


G GAIN
: 000
- B
B +

3 **Press ▲/▼ to select the Sub Menu you want to adjust.**

Each time you press the button, the Sub Menu changes as follows:


G GAIN
B GAIN
R GAIN

4 **Press ◄/► to adjust the selected item.**

5 **Repeat steps 3 and 4 to adjust the other items.**

6 **Press MENU/EXIT (or MENU on the Monitor) three times to exit from the menu operations.**

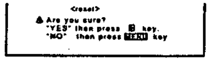
To reset the adjustments

After step 3 of the above procedure, proceed as follows:

1 **Press ▲/▼ to move the cursor (►) to "reset."**

2 **Press ►.**

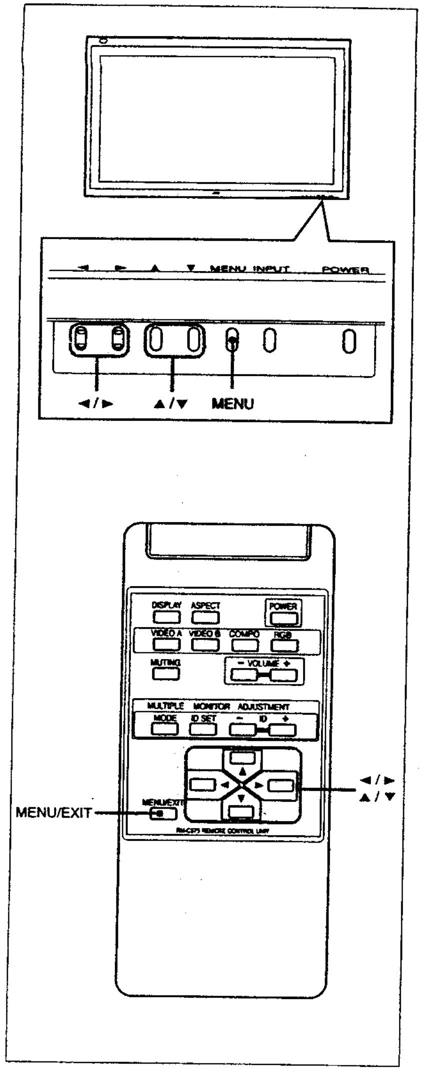
The confirmation screen appears.


<reset>
Are you sure?
"YES" then press ► key.
"NO" then press MENU key

3 **Press ► again to reset the adjustments.**

To cancel the reset, press MENU/EXIT (or MENU on the Monitor).

Video Adjustments (Continued)

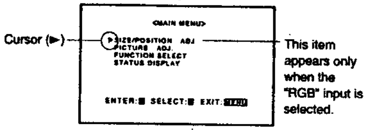


Changing the Aspect Ratio

The setting adjusted applies to all inputs.

- You can change the aspect ratio by pressing ASPECT. (See page 13.)

1 Press MENU/EXIT (or MENU on the Monitor) to display the Main Menu.


Cursor (►)

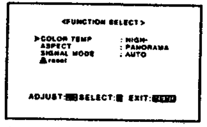
<MAIN MENU>
▶SIZE/POSITION ADJ
PICTURE ADJ.
FUNCTION SELECT
STATUS DISPLAY

ENTER:■ SELECT:■ EXIT:MENU

This item appears only when the "RGB" input is selected.

2 Press ▲/▼ to move the cursor (►) to "FUNCTION SELECT."

3 Press ► to display the Function Selection Menu.

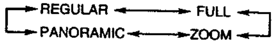

<FUNCTION SELECT>
▶COLOR TEMP : HIGH
ASPECT : PANORAMA
SIGNAL MODE : AUTO
reset

ADJUST:■ SELECT:■ EXIT:MENU

4 Press ▲/▼ to move the cursor (►) to "ASPECT."

5 Press ◄/► to select an aspect ratio you want.

Each time you press the button, the aspect ration changes as follows:



* For detailed information on these aspect ratios, see page 13.

6 Press MENU/EXIT (or MENU on the Monitor) three times to exit from the menu operations.

To reset the setting

You can only reset the color temperature (see page 16), aspect ratio, and video signal type (see page 19) at the same time. See "Resetting the Function Selection Menu Settings" on the next page.

Note:

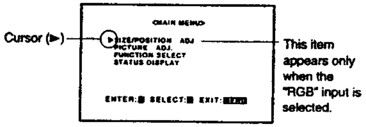
- When one of the following signals is being input, the aspect ratio is fixed and cannot be changed.
  Aspect ratio is fixed to REGULAR: When SVGA-72, XGA-60, or XGA-70 signal comes in (through the RGB input terminals)
  Aspect ratio is fixed to FULL: When 1080i or 720p signal comes in (through the COMPONENT input terminals)
  When 480p signal (through the COMPONENT input terminals) and any other signals than SVGA-72, XGA-60, and XGA-70 signal comes in (through the RGB input terminals), you can select only REGULAR and FULL.

Setting the Receivable Signal Types

You can set the receivable signal types. Normally, select "AUTO."

A common setting will apply to both VIDEO A and B terminals, and a different setting will apply to the COMPONENT terminal.

1 Press MENU/EXIT (or MENU on the Monitor) to display the Main Menu.


Cursor (►)

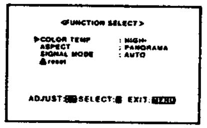
<MAIN MENU>
▶SIZE/POSITION ADJ
PICTURE ADJ.
FUNCTION SELECT
STATUS DISPLAY

ENTER:■ SELECT:■ EXIT:MENU

This item appears only when the "RGB" input is selected.

2 Press ▲/▼ to move the cursor (►) to "FUNCTION SELECT."

3 Press ► to display the Function Selection Menu.


<FUNCTION SELECT>
▶COLOR TEMP : HIGH
ASPECT : PANORAMA
SIGNAL MODE : AUTO
reset

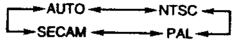
ADJUST:■ SELECT:■ EXIT:MENU

4 Press ▲/▼ to move the cursor (►) to "SIGNAL MODE."

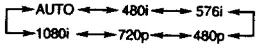
5 Press ◄/► to select the receivable video signal type.

Each time you press the button, the receivable video signal type changes as follows:

- When VIDEO A or VIDEO B input is selected:



- When COMPONENT input is selected:



6 Press MENU/EXIT (or MENU on the Monitor) twice to exit the menu operations.

To reset the setting

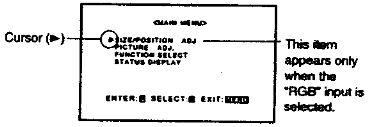
You can only reset the color temperature (see page 16), aspect ratio (see page 18), and video signal type at the same time. See "Resetting the Function Selection Menu Settings" below.

Resetting the Function Selection Menu Settings

You can reset all the following Function Selection Menu settings at a time.

- Color Temperature (see page 16)
- Aspect Ratio (see page 18)
- Receivable Signal Types: SIGNAL MODE (see page 19)

1 Press MENU/EXIT (or MENU on the Monitor) to display the Main Menu.


Cursor (►)

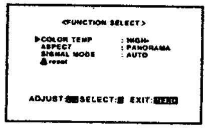
<MAIN MENU>
▶SIZE/POSITION ADJ
PICTURE ADJ.
FUNCTION SELECT
STATUS DISPLAY

ENTER:■ SELECT:■ EXIT:MENU

This item appears only when the "RGB" input is selected.

2 Press ▲/▼ to move the cursor (►) to "FUNCTION SELECT."

3 Press ► to display the Function Selection Menu.

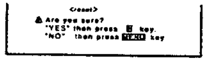

<FUNCTION SELECT>
▶COLOR TEMP : HIGH
ASPECT : PANORAMA
SIGNAL MODE : AUTO
reset

ADJUST:■ SELECT:■ EXIT:MENU

4 Press ▲/▼ to move the cursor (►) to "reset."

5 Press ►.

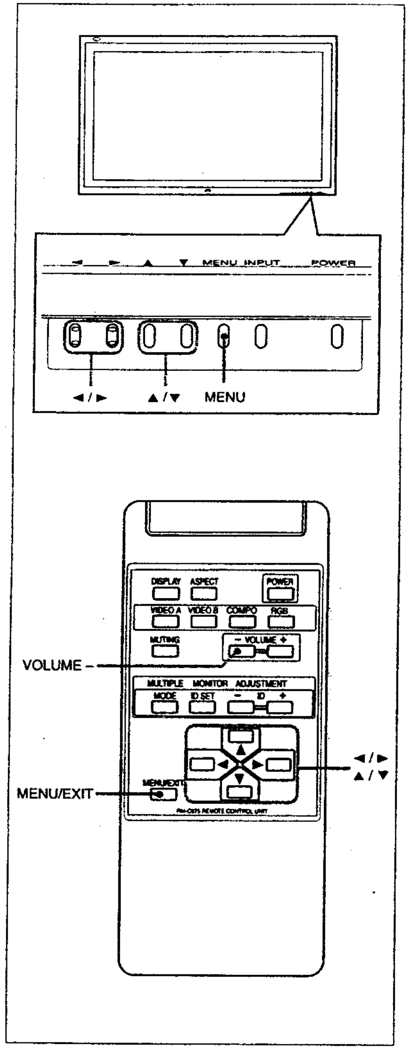
The confirmation screen appears.


<reset>
Are you sure?
"YES" then press ■ key.
"NO" then press MENU key

6 Press ► again to reset the adjustments.

To cancel the reset, press MENU/EXIT (or MENU on the Monitor).

Other Convenient Functions


◄ ► ▲ ▼ MENU INPUT POWER
◄/►
▲/▼
MENU
DISPLAY
ASPECT
POWER
VIDEO A
VIDEO B
COMPO
RGB
MUTING
VOLUME
MULTIPLE MODE
MONITOR ID SET
ADJUSTMENT ID
VOLUME
MENU/EXIT
◄/►
▲/▼

To set the other convenient functions, use menus.
You can use the buttons either on the remote control or on Monitor for menu operations.

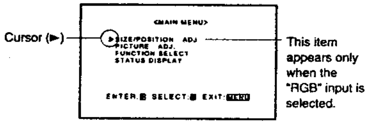
- Refer also to "Menu Classifications" on pages 26 and 27.

Showing On-screen Display

The input mode and signal type will be indicated on the screen.

- The following procedure can be don by using the buttons on the Monitor. You can also show these information by pressing DISPLAY on the remote control. (See page 12.)

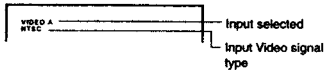
1 Press MENU (or MENU/EXIT on the remote control) to display the Main Menu.


Cursor (►)
<MAIN MENU>
SIZE/POSITION ADJ
PICTURE ADJ.
FUNCTION SELECT
STATUS DISPLAY
ENTER: SELECT: EXIT:MENU
This item appears only when the "RGB" input is selected.

2 Press ▲/▼ to move the cursor (►) to "STATUS DISPLAY."

3 Press ► to display the current input terminal and received signal type.

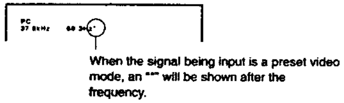
Ex. When selecting "VIDEO A" input


VIDEO A
NTSC
Input selected
Input Video signal type

Ex. When selecting "COMPONENT" input

COMPONENT
480i

Ex. When selecting "RGB" input


PC
37.8kHz 60.3Hz*
When the signal being input is a preset video mode, an "*" will be shown after the frequency.

Note:

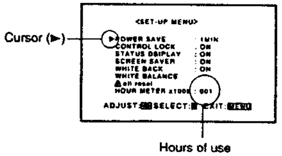
- If you want to make these information appear automatically when you change the input mode, see "Showing the On-screen When Changing the Input Mode" on page 22.

Confirming the Use Time

You can confirm the hours of use on the Setup Menu.
This may be necessary when you ask for any service.

1 On the remote control:
Press MENU/EXIT while holding VOLUME – to display the Setup Menu.

On the Monitor:
Press MENU while holding ◄ to display the Setup Menu.


Cursor (►)
<SET-UP MENU>
POWER SAVE : 1MIN
CONTROL LOCK : ON
STATUS DSIPLAY : ON
SCREEN SAVER : ON
WHITE BACK : ON
WHITE BALANCE
all reset
HOUR METER x100h : 001
ADJUST: SELECT: EXIT:MENU
Hours of use

2 Confirm the hour of use.

- The displayed value for the hours of use is divided by 100. To calculate the actual hours of use, multiply the displayed value by 100.

3 Press MENU/EXIT (or MENU on the Monitor) twice to exit from the menu operations.

Notes:

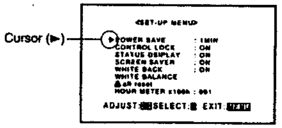
- The value for the hours of use is added by one hour unit. If you use the monitor within one hour. It will not be added to the hours of use.
- The period when the monitor is on standby (the power lamp glows red) will not be added to the hours of use.

Setting the Power Saving Function

This function allows you to turn off (into standby mode) automatically when no signal comes in for a certain period of time.

1 On the remote control:
Press MENU/EXIT while holding VOLUME – to display the Setup Menu.

On the Monitor:
Press MENU while holding ◄ to display the Setup Menu.


Cursor (►)
<SET-UP MENU>
POWER SAVE : 1MIN
CONTROL LOCK : ON
STATUS DSIPLAY : ON
SCREEN SAVER : ON
WHITE BACK : ON
WHITE BALANCE
all reset
HOUR METER x100h : 001
ADJUST: SELECT: EXIT:MENU

2 Press ▲/▼ to move the cursor (►) to "POWER SAVE."

3 Press ◄/► to select the desired amount of time.

Select the number of minutes before the Monitor goes into standby mode after the signal has ceased to be supplied.
Each time you press the button, the amount of time changes as follows:

OFF ↔ 1 MIN. ↔ 2 MIN. ↔ 3 MIN. ↔ 4 MIN. ↔ 5 MIN.

To cancel the Power Saving function, select "OFF."

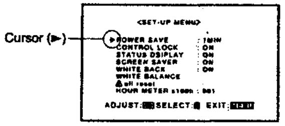
4 Press MENU/EXIT (or MENU on the Monitor) twice to exit from the menu operations.

Prohibiting the Monitor's Button Operations

This function allows you to prohibit the button operations on the Monitor to prevent malfunction or avoid tampering.

1 On the remote control:
Press MENU/EXIT while holding VOLUME – to display the Setup Menu.

On the Monitor:
Press MENU while holding ◄ to display the Setup Menu.


Cursor (►)
<SET-UP MENU>
POWER SAVE : 1MIN
CONTROL LOCK : ON
STATUS DSIPLAY : ON
SCREEN SAVER : ON
WHITE BACK : ON
WHITE BALANCE
all reset
HOUR METER x100h : 001
ADJUST: SELECT: EXIT:MENU

2 Press ▲/▼ to move the cursor (►) to "CONTROL LOCK."

3 Press ◄/► to select the desired setting.

Each time you press the button, the Control Lock function alternates between "ON" and "OFF."

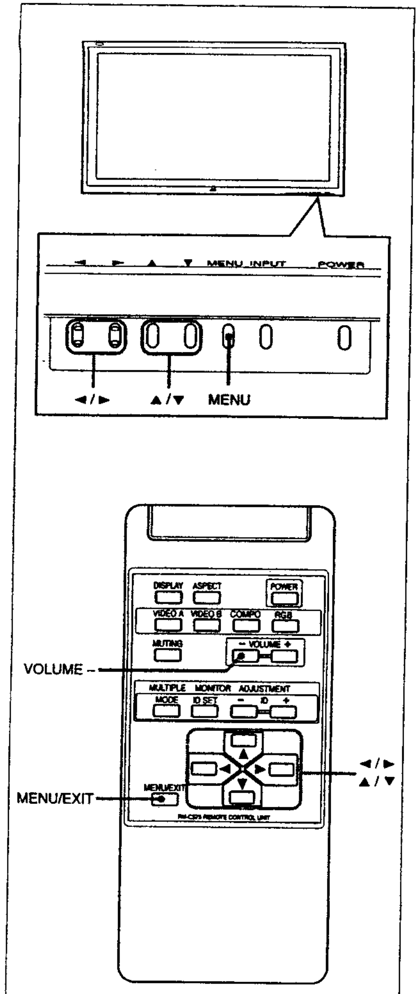
To cancel the Control Lock function, select "OFF."

4 Press MENU/EXIT (or MENU on the Monitor) twice to exit from the menu operations.

Note:

- Even when the Control Lock function is in use, the following operations are possible:
  - Operation to cancel the Control Lock function
  - All operations from the remote control

Other Convenient Functions (Continued)

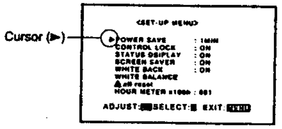


Reducing the Afterimage Effect

After the power is turned off, a whitish image may be left on the screen. In that case, leave the monitor in a white back state for a while, and the image will disappear.

1 **On the remote control:**
Press MENU/EXIT while holding VOLUME – to display the Setup Menu.

On the Monitor:
Press MENU while holding ◄ to display the Setup Menu.



<SET-UP MENU>
POWER SAVE : 1MIN
CONTROL LOCK : ON
STATUS DSIPLAY : ON
SCREEN SAVER : ON
WHITE BACK : ON
WHITE BALANCE
all reset
HOUR METER ×1000 : 001
ADJUST: SELECT: EXIT: MENU

2 **Press ▲/▼ to move the cursor (►) to "WHITE BACK."**

3 **Press ◄/► to select the desired setting.**
The Setup Menu disappears, and the white screen appears.

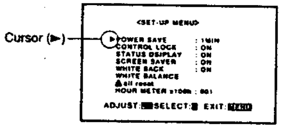
To cancel the White Back function
Repeat steps *1* and *2*, then select "OFF" by pressing ◄/►.

Showing the On-screen When Changing the Input Mode

With this function, you can see the selected input mode and signal type when changing the input mode.

1 **On the remote control:**
Press MENU/EXIT while holding VOLUME – to display the Setup Menu.

On the Monitor:
Press MENU while holding ◄ to display the Setup Menu.



<SET-UP MENU>
POWER SAVE : 1MIN
CONTROL LOCK : ON
STATUS DSIPLAY : ON
SCREEN SAVER : ON
WHITE BACK : ON
WHITE BALANCE
all reset
HOUR METER ×1000 : 001
ADJUST: SELECT: EXIT: MENU

2 **Press ▲/▼ to move the cursor (►) to "STATUS DISPLAY."**

3 **Press ◄/► to select the desired setting.**
Each time you press the button, the Status Display function alternates between "ON" and "OFF."
To cancel the Status Display function, select "OFF."

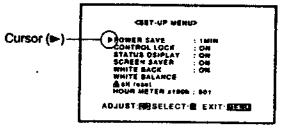
4 **Press MENU/EXIT (or MENU on the Monitor) twice to exit from the menu operations.**

Using the Screen Saver Function

With this function, you can avoid the screen from being burned in.

1 **On the remote control:**
Press MENU/EXIT while holding VOLUME – to display the Setup Menu.

On the Monitor:
Press MENU while holding ◄ to display the Setup Menu.



<SET-UP MENU>
POWER SAVE : 1MIN
CONTROL LOCK : ON
STATUS DSIPLAY : ON
SCREEN SAVER : ON
WHITE BACK : ON
WHITE BALANCE
all reset
HOUR METER ×1000 : 001
ADJUST: SELECT: EXIT: MENU

2 **Press ▲/▼ to move the cursor (►) to "SCREEN SAVER."**

3 **Press ◄/► to select the desired setting.**
Each time you press the button, the Screen Saver function alternates between "ON" and "OFF."
To cancel the Screen Saver function, select "OFF."

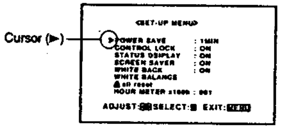
4 **Press MENU/EXIT (or MENU on the Monitor) twice to exit from the menu operations.**

Resetting All the Setup Menu Settings

You can reset all the following Setup Menu settings at a time.
- Power Saving function (see page 21)
- Control Lock function (see page 21)
- Status Display function (see page 22)
- Screen Saver function (see the left column)
- White Back function (see page 22)
- White Balance adjustments (see page 17)

1 **On the remote control:**
Press MENU/EXIT while holding VOLUME – to display the Setup Menu.

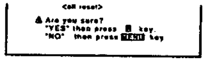
On the Monitor:
Press MENU while holding ◄ to display the Setup Menu.



<SET-UP MENU>
POWER SAVE : 1MIN
CONTROL LOCK : ON
STATUS DSIPLAY : ON
SCREEN SAVER : ON
WHITE BACK : ON
WHITE BALANCE
all reset
HOUR METER ×1000 : 001
ADJUST: SELECT: EXIT: MENU

2 **Press ▲/▼ to move the cursor (►) to "all reset."**

3 **Press ►.**
The confirmation screen appears.



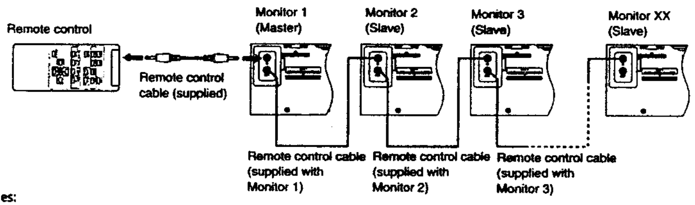
<all reset>
Are you sure?
"YES" then press ► key.
"NO" then press MENU key

4 **Press ► again to reset all the settings.**
To cancel the reset, press MENU/EXIT (or MENU on the Monitor).

Serial Connections and Operations

When the Monitors are serially connected, you can control all of them at the same time (simultaneous operation) or control them one by one separately (individual operation).
For individual operation, you have to assign an ID number to each of the Monitors.
For the purpose of explanation, we will call Monitor 1 as a Master and Monitor 2 and subsequent Monitors as Slaves.

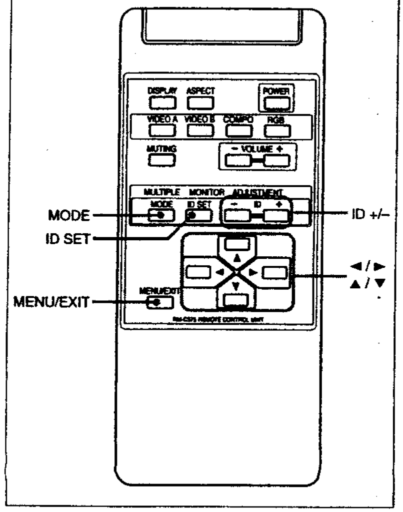
Connecting the Remote Control Cables


Remote control
Monitor 1 (Master)
Monitor 2 (Slave)
Monitor 3 (Slave)
Monitor XX (Slave)
Remote control cable (supplied)
Remote control cable (supplied with Monitor 1)
Remote control cable (supplied with Monitor 2)
Remote control cable (supplied with Monitor 3)

Notes:
- Do not connect the last monitor to Monitor 1.
- When operating with a wired remote control, connect it to the REMOTE CONTROL input terminal of Monitor 1.
- When Monitors are serially connected, Monitor 2 and subsequent Monitors cannot be directly controlled with a wireless remote control.
- Even after the Monitors are serially connected, each of them can be operated using the buttons on the Monitor. However, you cannot perform simultaneous or individual operation even with the buttons on Master Monitor.

Assigning ID Numbers

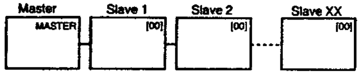
- When performing simultaneous or individual operation, use the remote control.


MODE
ID SET
MENU/EXIT
ID +/–
◄/►
▲/▼

The following procedure should be performed slowly and securely.

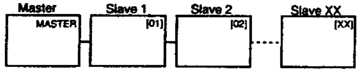
1 **Turn on all the connected Monitors.**

2 **Press MODE.**


Master
Slave 1
Slave 2
Slave XX
MASTER
[00]
[00]
[00]

On Master Monitor screen, "MASTER" is displayed, and "[00]" is displayed on all of Slave Monitor screens.

3 **Press ID SET.**


Master
Slave 1
Slave 2
Slave XX
MASTER
[01]
[02]
[XX]

On the Slave Monitor screens, "[01]", "[02]", "[03]", —— and so on will be displayed in the order of connection.

Notes:
- When a maximum number of 20 Monitors are connected, it will take approx. 10 seconds for ID numbers to be displayed on all the screens.
- If "[00]" is displayed on all the Monitor screens or if some of the Monitors have no indication in step 1, press MODE to turn off the indications on all Monitor screens, and then press MODE again.

Operating the Monitors Simultaneously

- Check that no ID number is shown on the screens. If any ID numbers are shown, press MODE to erase them.
- The following procedure should be performed slowly and securely.

Example: When adjusting "CONTRAST":

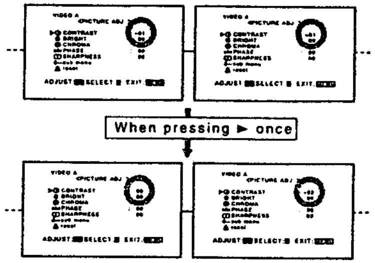
1 **Press MENU/EXIT to display the Main Menu.**
The Main Menus appear on all the connected Monitors' screens.

2 **Press ▲/▼ to move the cursor (►) to "PICTURE ADJ."**

3 **Press ► to display the Picture Adjustment Menu.**
The Picture Adjustment Menus appear on all the connected Monitors' screens.

4 **Press ▲/▼ to move the cursor (►) to "CONTRAST."**

5 **Press ◄/► to make an adjustment.**
At this time, if the Monitors have different "CONTRAST" settings, the adjustment is made, based on the different settings.

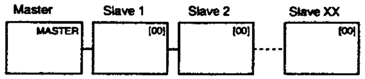

When pressing ► once

6 **Press MENU/EXIT twice to exit from the menu operations.**

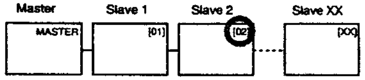
Operating the Monitors Individually

The following procedure should be performed slowly and securely.

1 **Press MODE to display the ID numbers on all the connected Monitors' screens.**


Master
Slave 1
Slave 2
Slave XX
MASTER
[00]
[00]
[00]

2 **Press ID +/– to select the Monitor you want to operate.**
Example: To select "[02]":
Press ID + twice.
Slave 2's ID number "[02]" is highlighted.

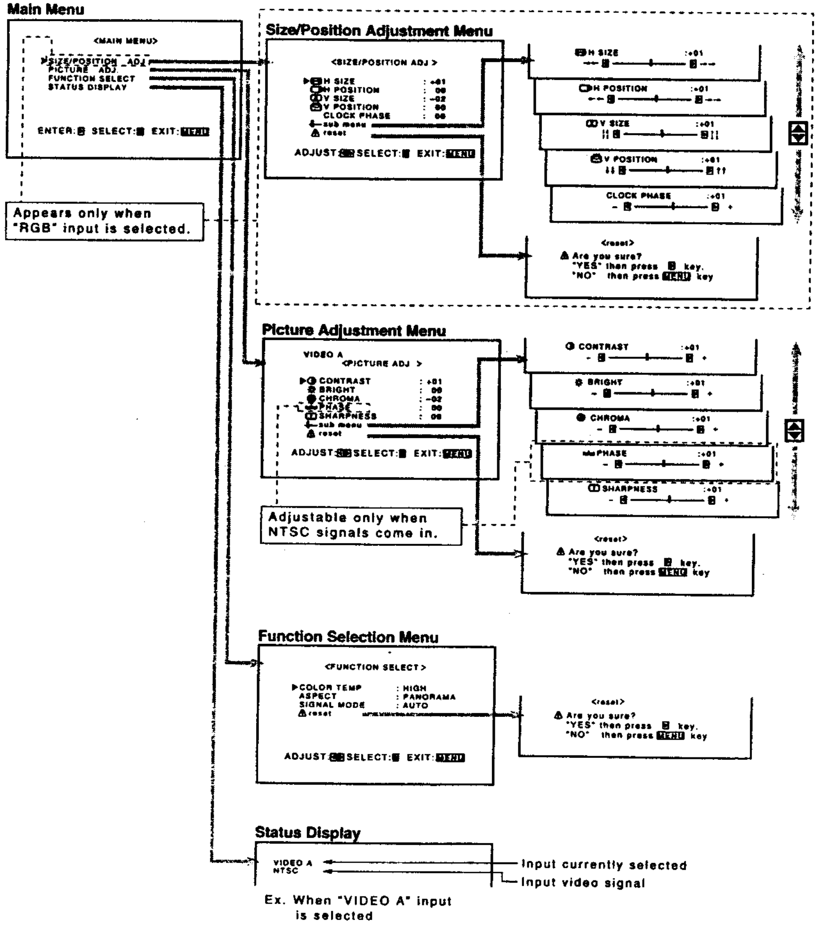

Master
Slave 1
Slave 2
Slave XX
MASTER
[01]
[02]
[XX]

3 **Perform any desired operations, such as adjusting menu items.**

Notes:
- If "[00]" is displayed on all the Monitor screens or if some of the Monitor screens have no indication in step 1, press MODE to turn off the indications on all screens, and then press MODE again.
- If the ID number of the Monitor selected in step 2 is not highlighted or if the ID numbers of more than one Monitor are highlighted, press MODE to clear the ID numbers, and then start the procedure again from the beginning.

Menu Classifications

Main Menu


Main Menu
<MAIN MENU>
▶SIZE/POSITION ADJ
PICTURE ADJ.
FUNCTION SELECT
STATUS DISPLAY
ENTER: SELECT: EXIT:MENU
Size/Position Adjustment Menu
<SIZE/POSITION ADJ >
▶H SIZE : +01
H POSITION : 00
V SIZE : −02
V POSITION : 00
CLOCK PHASE : 00
sub menu
reset
ADJUST: SELECT: EXIT:MENU
H SIZE :+01
H POSITION :+01
V SIZE :+01
V POSITION :+01
CLOCK PHASE :+01
<reset>
Are you sure?
"YES" then press key.
"NO" then press MENU key
Picture Adjustment Menu
VIDEO A
<PICTURE ADJ >
▶CONTRAST : +01
BRIGHT : 00
CHROMA : −02
PHASE : 00
SHARPNESS : 00
sub menu
reset
ADJUST: SELECT: EXIT:MENU
CONTRAST :+01
BRIGHT :+01
CHROMA :+01
PHASE :+01
SHARPNESS :+01
<reset>
Are you sure?
"YES" then press key.
"NO" then press MENU key
Function Selection Menu
<FUNCTION SELECT >
▶COLOR TEMP : HIGH
ASPECT : PANORAMA
SIGNAL MODE : AUTO
reset
ADJUST: SELECT: EXIT:MENU
<reset>
Are you sure?
"YES" then press key.
"NO" then press MENU key
Status Display
VIDEO A
NTSC

Appears only when "RGB" input is selected.

Adjustable only when NTSC signals come in.

Input currently selected

Input video signal

Ex. When "VIDEO A" input is selected

SIZE/POSITION ADJ.* : See page 14.

H.SIZE*	Adjusts the horizontal screen size.
H. POSITION*	Adjusts the horizontal screen position.
V. SIZE*	Adjusts the vertical screen size.
V.POSITION*	Adjusts the vertical screen position.
CLOCK PHASE*	Adjusts to eliminate stripes or flickering. Normally, no adjustment is needed.
sub menu	Displays the fine adjustment bar.
reset	Resets Size/position Adjustment Menu settings to defaults.

PICTURE ADJ. (Picture adjustment): See page 15.

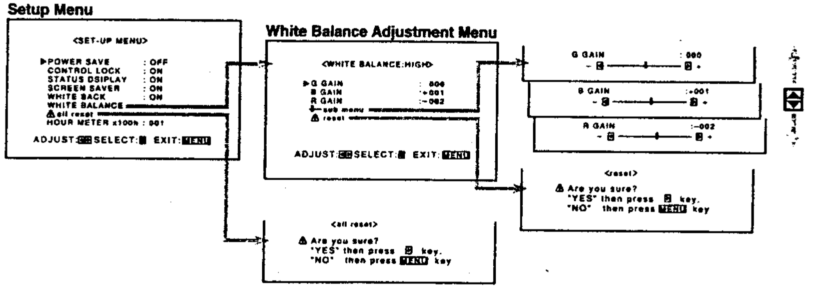
CONTRAST	Adjusts the contrast of the picture.
BRIGHT	Adjusts the brightness of the picture.
CHROMA**	Adjusts the color density of the picture.
PHASE***	Adjusts the color phase.
SHARPNESS	Adjusts the outlines of the picture.
sub menu	Displays the fine adjustment bar.
reset	Resets the Picture Adjustment Menu settings to defaults.

FUNCTION SELECT: See pages 16 to 19.

COLOR TEMP.	Adjusts the color temperature. Use when the picture is reddish or bluish.
ASPECT	Selects the horizontal to vertical ratio of the screen.
SIGNAL MODE	• Selects a color system (NTSC, PAL, SECAM) when VIDEO A or VIDEO B input is selected. • Selects a scan system (480i, 576i, 480p, 720p, 1080i) when COMPONENT input is selected. Normally, set to "AUTO."
reset	Resets the Function Selection Menu settings to defaults.

* Adjustment is only possible when RGB input is selected.
** Adjustment is not possible when RGB input is selected.
*** Adjustment is only possible when viewing NTSC signal through the VIDEO A or B terminal.

Setup Menu


Setup Menu
<SET-UP MENU>
▶POWER SAVE : OFF
CONTROL LOCK : ON
STATUS DSIPLAY : ON
SCREEN SAVER : ON
WHITE BACK : ON
WHITE BALANCE
all reset
HOUR METER x100h : 001
ADJUST: SELECT: EXIT:MENU
White Balance Adjustment Menu
<WHITE BALANCE:HIGH>
▶G GAIN : 000
B GAIN :+001
R GAIN :−002
sub menu
reset
ADJUST: SELECT: EXIT:MENU
G GAIN : 000
B GAIN :+001
R GAIN :−002
<reset>
Are you sure?
"YES" then press key.
"NO" then press MENU key
<all reset>
Are you sure?
"YES" then press key.
"NO" then press MENU key

POWER SAVE	Sets the length of time before standby mode is automatically assumed after the input signal has stopped being supplied. (See page 21.)
CONTROL LOCK	Sets the Monitor so that it cannot be operated with the buttons on itself. (See page 21.)
STATUS DISPLAY	Sets if you want the input terminal and the type of signal to be indicated on the screen just after inputs are switched. (See page 22.)
SCREEN SAVER	Sets a screen saver. (See page 23.)
WHITE BACK	Use to eliminate afterimages on the screen. (See page 22.)
WHITE BALANCE	Adjusts R GAIN, G GAIN and B GAIN finely each for "HIGH" and "LOW" settings of the color temperature. (See page 17.)
all reset	Resets the Setup Menu settings to defaults. (See page 23.)
HOUR METER	Use to confirm the hours of use. (See page 21.)

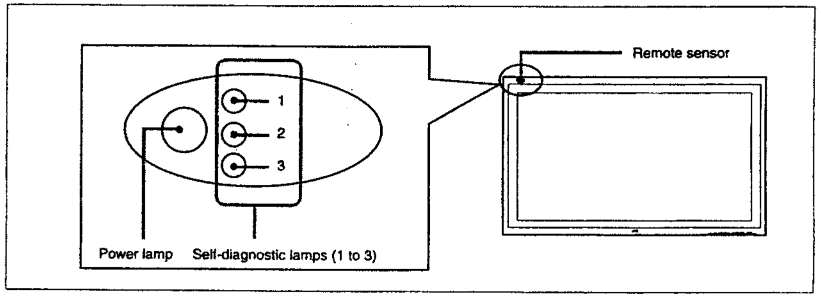
Troubleshooting

Solutions to common problems related to the Monitor are described here. If none of the solutions presented here solves the problem, unplug the Monitor and consult an authorized dealer or service center.

Symptom	Probable cause	Corrective action	Page
Power is not supplied.	• Is the power cord disconnected?	• Insert the power cord (plug) firmly.	11
	• Is the MAIN POWER switch turned on?	• Turn on the MAIN POWER switch.	12
Video image does not appear, or audio sound does not occur.	• Is the correct input selected?	• Select the correct input by pressing VIDEO A, VIDEO B, COMPO., and RGB on the remote control (or INPUT on the Monitor).	12
	• Are connected devices connected correctly?	• Connect connected devices correctly.	11
	• Are signals being supplied from the connected devices?	• Set connected devices correctly.	11
	• Are input signals (scanning frequency, etc.) appropriate?	• Check if the signal is appropriate (scanning frequency, etc.), and input the appropriate signal.	10
	• Is brightness adjusted correctly?	• Adjust brightness on the menu.	15
	• Is volume set at minimum?	• Adjust volume.	12
	• Are the diagnostic lamps turned on?	• Refer to "Self-diagnostic indication," and take an appropriate action.	29
The picture through the RGB terminal is blurred.	———	• Adjust CLOCK PHASE using the menu.	14
Color is abnormally dark or bright.	• Is brightness adjusted correctly?	• Adjust BRIGHT (brightness) using the menu.	15
Color is poor or unstable.	• Is picture quality (color density, etc.) adjusted correctly?	• Adjust PICTURE using the menu.	15
	• Is the correct broadcast system (color system) selected?	• Set SIGNAL MODE (color system) to "AUTO."	19
	• Are signals (scanning frequency, etc.) to connected devices appropriate?	• Check if the signal is appropriate (scanning frequency, etc.), and input the appropriate signal.	10
The picture is cut or shifted toward one side.	• Is the size or position of the screen adjusted properly?	• Adjust H.SIZE, V.SIZE, H.POSITION or V.POSITION using the menu.	14
The remote control does not work.	• Are the batteries correctly set?	• Insert batteries correctly, observing the polarities (⊕ and ⊖).	8
	• Are the batteries exhausted?	• Replace with new batteries.	8
	• Is there any object blocking the path between the remote control and remote sensor?	• Remove any blocking object.	—
	• Is the Monitor too far away from you?	• Move toward the Monitor, then operate the remote control.	—
	• Is the Monitor connected serially to another Monitor (Serial Connection)?	• Only Master Monitor can be controlled by the remote control when connected serially.	24
The buttons on the Monitor do not work.	• Is the Control Lock function in use?	• Set the Control Lock function to "OFF" using the menu.	21

Self-diagnostic Indication

The screen monitor may automatically turn off and self-diagnostic lamps next to the power lamp may light or flash.
When something abnormal occurs with the Monitor, this function informs you of the condition of the Monitor with self-diagnostic lamps, allowing for smooth service work.
If the self-diagnostic lamps glow or flash in red, use the following procedure before consulting the dealer where you purchased the Monitor.



1. **Check which lamps are lighting or flashing.**
   On the Self-diagnostic Report Sheet (below), check the box next to "Lights" or "Flashes" of the corresponding lamp or lamps.
   - Depending on a particular case, only one lamp may light or flash, or all three lamps may do so.
2. **Turn off the MAIN POWER switch on the back of the Monitor.**
3. **Unplug the power cord.**
4. **Call your dealer and tell which lamps are lighting or flashing. (Copy and fax the Self-diagnostic Report Sheet below.)**

Note:

- If you turn on the Monitor soon after turning it off (or after recovering from a brief power interruption), the self-diagnostic lamps may light (or flash), and no image may appear on the screen. In this case, turn off the Monitor again, wait for about 10 seconds, then turn it on again. If no self-diagnostic lamps light or flash, you can operate and use the Monitor as usual.

Store name where you purchased the Monitor

To ______________________

Model Name:
Plasma Display Monitor
GD-V4200PZW/GD-V4200PZW-G

Self-diagnostic Report Sheet

The self-diagnostic lamps light or flash as listed on the following table. Please give me immediate advice or service if necessary.

Self-diagnostic lamps			
NO.	Lamp position	Conditions	
1	Upper	☐ Lights	☐ Flashes
2	Middle	☐ Lights	☐ Flashes
3	Lower	☐ Lights	☐ Flashes

Your Name:	
Telephone No.:	
Address:	

Specifications

General:

Model name	GD-V4200PZW / GD-V4200PZW-G
Frame colour	GD-V4200PZW : Silver GD-V4200PZW-G : Gray
Screen size	Type 42 wide format
Aspect ratio	16 : 9 (Wide format)
Mass	36.0 kg (79.2 lbs)
External dimensions	103.5 x 64.0 x 8.9 cm ($40\frac{3}{4}$ x $25\frac{1}{4}$ x $3\frac{5}{8}$ inches) (W x H x D)
Power requirements	AC 120 V/230 V, 50 Hz /60 Hz
Power consumption	390W
Effective screen size	92.1 x 51.8 cm ($36\frac{3}{8}$ x $20\frac{1}{2}$ inches) (W x H), 105.7 cm ($41\frac{5}{8}$ inches) diagonally
Number of pixels displayed	853 (H) x 480 (V)
Number of colors displayed	16.77 million (256 colors for each of RGB)
Compatible systems	• VIDEO A, B input: NTSC, PAL, SECAM • COMPONENT input: 480i, 576i, 480p, 720p, 1080i
Audio output	INTERNAL: 2W + 2W (TYP at impedance 8Ω) EXTERNAL: 3W + 3W (TYP at impedance 6Ω)
Speakers	2 pcs., built-in (4 cm x 7 cm oval-shaped, impedance 8Ω)
Operating conditions	Temperature: 0℃ to 40℃ Relative humidity: 20% to 80%

Input/output terminals

VIDEO A	• Y/C input	Y/C terminal x 1	Y : 1V(p-p)/75Ω C : 0.286V(p-p)/75Ω for NTSC C : 0.3V(p-p)/75Ω for PAL/SECAM
	• Video input	BNC terminal x 1	1V(p-p)/75Ω
	• Video output	BNC terminal x 1	1V(p-p)/75Ω
	• Audio input	Pin jack terminal x 2 (L/R), 500mV(rms)/22 kΩ or over	
VIDEO B	• Y/C input	Y/C terminal x 1	Y : 1V(p-p)/75Ω C : 0.286V(p-p)/75Ω for NTSC C : 0.3V(p-p)/75Ω for PAL/SECAM
	• Video input	BNC terminal x 1	1V(p-p)/75Ω
	• Video output	Pin jack terminal x 1	1V(p-p)/75Ω
	• Audio input	Pin jack terminal x 2 (L/R), 500mV(rms)/22kΩ or over	
COMPONENT input	• BNC terminal x 3	Y : 1V(p-p)/75Ω P_B/B-Y : 0.7V(p-p)/75Ω P_R/R-Y : 0.7V(p-p)/75Ω	
RGB input	• D-sub 3 line 15-pin terminal x 1	Video signal : 0.7V(p-p)/75Ω Sync signal : TTL level or 0.3V(p-p)/75Ω	
	• Audio input	Pin jack terminal x 2 (L/R), 500mV(rms)/22kΩ or over	
RS232C input	D-sub 9-pin terminal x 1		
SPEAKER OUT terminal	Impedance 6Ω to 16Ω		

Options (not supplied)

Stand Unit	TS-C420P1W
Wall Mounting Unit	TS-C420P2W
Ceiling suspension Unit	TS-C420P3W

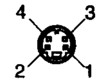
Specifications and design are subject to change without notice.

Notice on transportation

This Monitor is precision equipment and needs dedicated packing material for transportation. Never use any packing material supplied from other than JVC or JVC-authorized dealers.

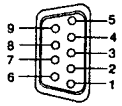
Pin assignment (Specifications for terminals)

- Y/C terminal



Pin number	Signal name
1	GND (Y)
2	GND (C)
3	Y
4	C

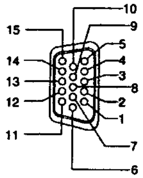
- RS-232C terminal



Note:
- This is a female type connector.

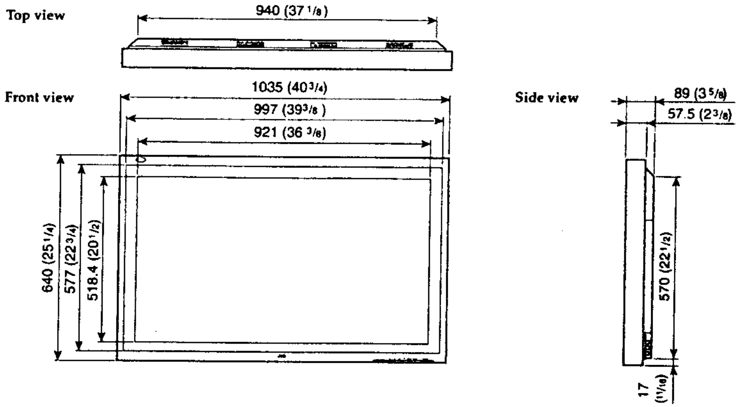
Pin number	Signal name	Pin number	Signal name
1	DCD	6	DSR
2	RD	7	RTS
3	TD	8	CTS
4	DTR	9	RI
5	GND		

- RGB Input Terminal



Pin number	Signal name	Pin number	Signal name
1	Red	9	N/C
2	Green	10	GND
3	Blue	11	GND
4	N/C	12	N/C
5	GND	13	H.SYNC
6	GND	14	V.SYNC
7	GND	15	N/C
8	GND	External	GND

Dimensions



GD-V4200PZW / GD-V4200PZW-G
STANDARD CIRCUIT DIAGRAM

■ NOTE ON USING CIRCUIT DIAGRAMS

1. SAFETY

The components identified by the⚠ symbol and shading are critical for safety. For continued safety replace safety critical components only with manufactures recommended parts.

2.SPECIFIED VOLTAGE AND WAVEFORM VALUES

The voltage and waveform values have been measured under the following conditions.

(1)Input signal :Colour bar signal
(2)Setting positions of each knob/button and variable resistor :Original setting position when shipped
(3)Internal resistance of tester :DC 20kΩ/V
(4)Oscilloscope sweeping time :H ⇒ 20μS/div
:V ⇒ 5mS/div
:Others ⇒ Sweeping time is specified
(5)Voltage values :All DC voltage values

* Since the voltage values of signal circuit vary to some extent according to adjustments, use them as reference values.

3.INDICATION OF PARTS SYMBOL [EXAMPLE]

●In the PW board :R1209→R209

4.INDICATIONS ON THE CIRCUIT DIAGRAM

(1)Resistors

●Resistance value
No unit :[Ω]
K :[KΩ]
M :[MΩ]

●Rated allowable power
No indication :1/10[W]
Others :As specified

●Type
No indication :Carbon resistor
OMR :Oxide metal film resistor
MFR :Metal film resistor
MPR :Metal plate resistor
UNFR :Uninflammble resistor
FR :Fusible resistor

*Composition resistor 1/2 [W] is specified as 1/2S or Comp.

(2)Capacitors

●Capacitance value
1 or higher :[pF]
less than 1 :[μF]

●Withstand voltage
No indication :DC50[V]
AC indicated :AC withstand voltage [V]
Others :DC withstand voltage [V]

*Electrolytic Capacitors
47/50[Example]:Capacitance value [μF]/withstand voltage[V]

●Type
No indication :Ceramic capacitor
MY :Mylar capacitor
MM :Metalized mylar capacitor
PP :Polypropylene capacitor
MPP :Metalized polypropylene capacitor
MF :Metalized film capacitor
TF :Thin film capacitor
BP :Bipolar electrolytic capacitor
TAN :Tantalum capacitor

(3)Coils
No unit :[μH]
Others :As specified

(4)Power Supply
═════ :B1
▬▬▬▬ :B2(12V)
▬□▬□ :9V
□□□□ :5V

*Respective voltage values are indicated

(5)Test point
⦿ :Test point
○ :Only test point display

(6)Connecting method
▭ :Connector
◯ :Wrapping or soldering
→≻— →⊁— :Receptacle

(7)Ground symbol
⊥ :LIVE side ground
⏊ :ISOLATED(NEUTRAL) side ground
⏚ :EARTH ground
▽ :DIGITAL ground

5.NOTE FOR REPAIRING SERVICE

This model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : (⊥) side GND and the ISOLATED(NEUTRAL) : (⏊) side GND. Therefore, care must be taken for the following points.

(1)Do not touch the LIVE side GND or the LIVE side GND and the ISOLATED(NEUTRAL) side GND simultaneously. If the above caution is not respected, an electric shock may be caused. Therefore, make sure that the power cord is surely removed from the receptacle when, for example, the chassis is pulled out.

(2)Do not short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or never measure with a measuring apparatus (oscilloscope, etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND at the same time. If the above precaution is not respected , a fuse or any parts will be broken.

◇Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.

Sep. 1999 No.51566

CONTENTS

BLOCK DIAGRAM 2-3

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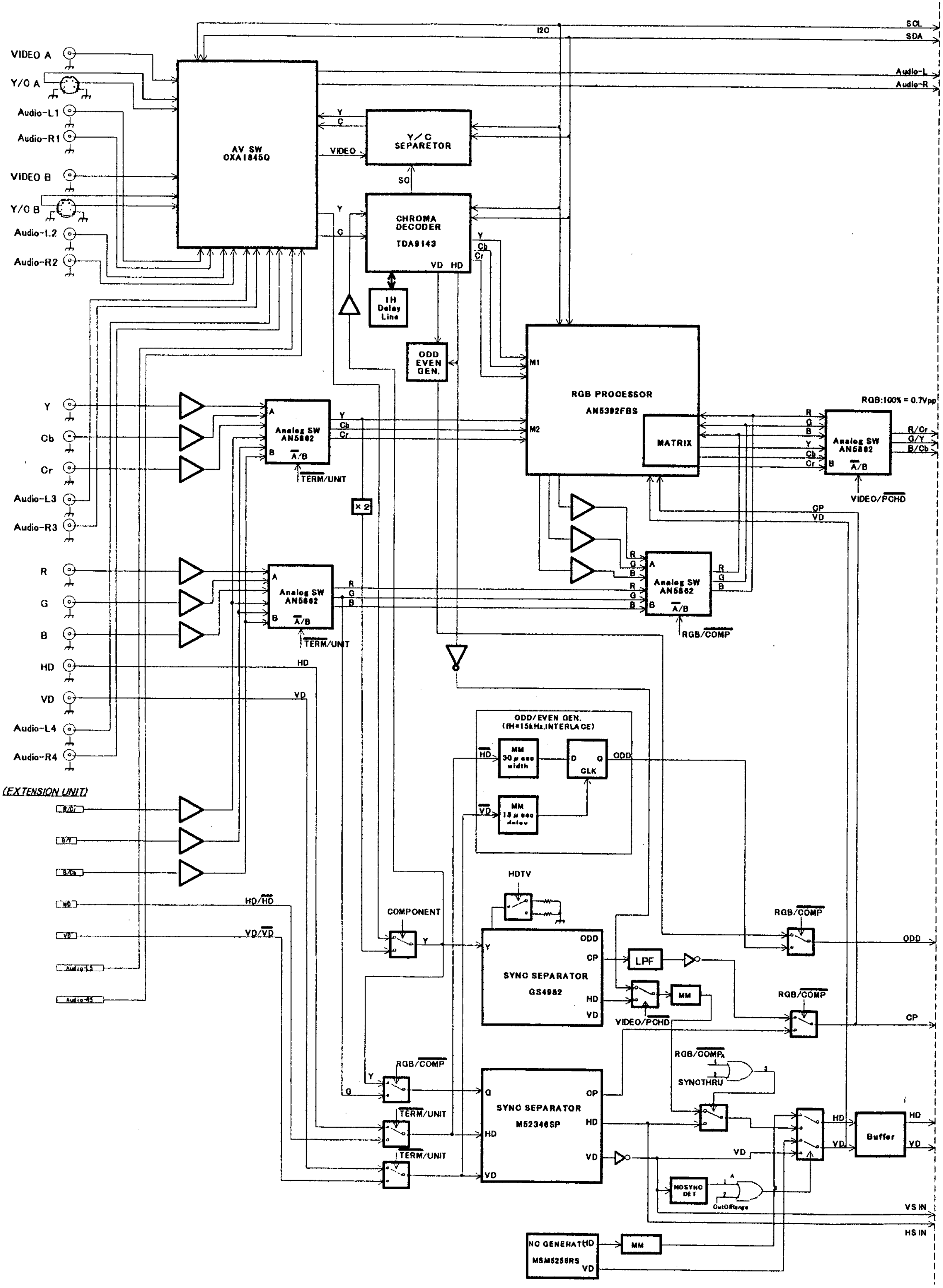
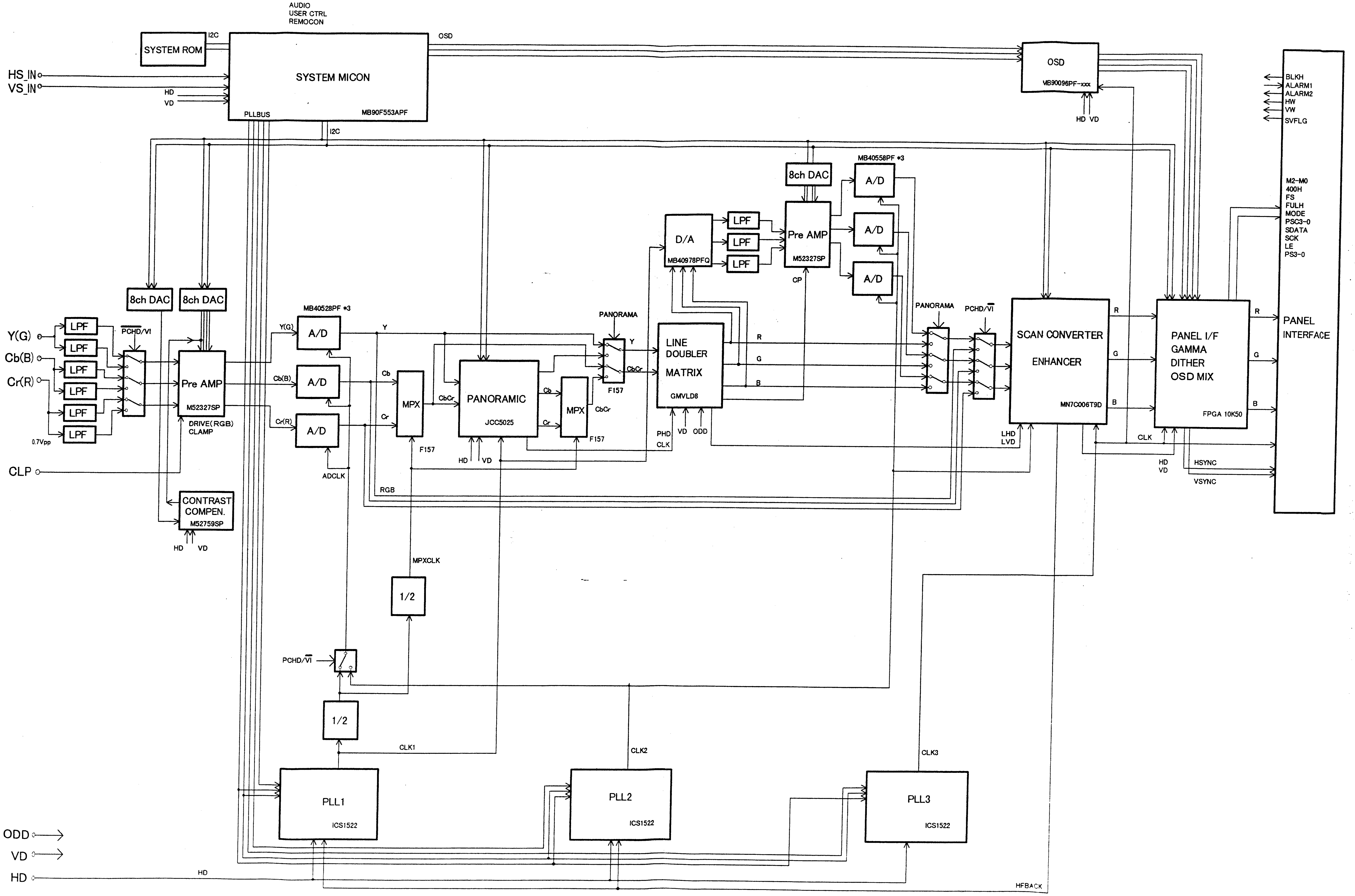
- *INTERFACE PWB PATTERN* [FX-7009A] 2-50

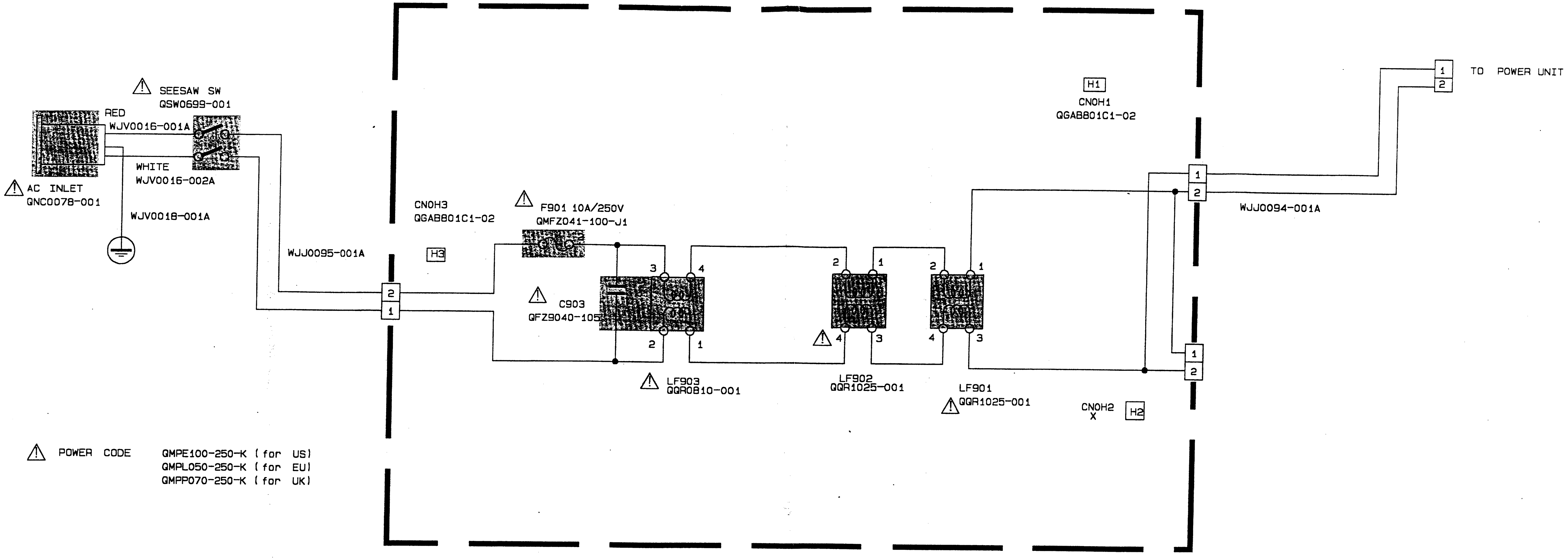
BLOCK DIAGRAM (ANALOG)


I2C
SCL
SDA
Audio-L
Audio-R
VIDEO A
Y/C A
Audio-L1
Audio-R1
VIDEO B
Y/C B
Audio-L2
Audio-R2
AV SW
CXA1845Q
Y
C
VIDEO
Y/C SEPARETOR
SC
CHROMA DECODER
TDA9143
Y
Cb
Cr
VD HD
1H Delay Line
ODD EVEN GEN.
RGB PROCESSOR
AN5392FBS
M1
M2
MATRIX
RGB:100% = 0.7Vpp
R
G
B
Y
Cb
Cr
Analog SW
AN5862
A
B
A/B
R/Cr
G/Y
B/Cb
VIDEO/PCHD
CP
VD
Y
Cb
Cr
Audio-L3
Audio-R3
Analog SW
AN5862
TERM/UNIT
×2
R
G
B
HD
VD
Audio-L4
Audio-R4
Analog SW
AN5862
TERM/UNIT
Analog SW
AN5862
RGB/COMP
ODD/EVEN GEN.
(fH=15kHz,INTERLACE)
HD
VD
MM
30 μ sec width
MM
15 μ sec delay
D
Q
CLK
ODD
(EXTENSION UNIT)
R/Cr
G/Y
B/Cb
HD
VD
Audio-L5
Audio-R5
HD/HD
VD/VD
HDTV
COMPONENT
Y
SYNC SEPARATOR
GS4982
ODD
CP
HD
VD
LPF
MM
VIDEO/PCHD
RGB/COMP
ODD
RGB/COMP
CP
RGB/COMP
TERM/UNIT
TERM/UNIT
G
SYNC SEPARATOR
M52346SP
OP
HD
VD
RGB/COMP
SYNCTHRU
1
2
3
VD
NOSYNC DET
A
1
2
OutOfRange
HD
VD
Buffer
HD
VD
VS IN
HS IN
NC GENERATOR
MSM5258RS
HD
VD
MM

BLOCK DIAGRAM (DIGITAL)


POWER
AUDIO
USER CTRL
REMOCON
SYSTEM ROM
I2C
SYSTEM MICON
MB90F553APF
OSD
PLLBUS
I2C
HS_IN
VS_IN
HD
VD
OSD
MB90096PF-xxx
HD VD
BLKH
ALARM1
ALARM2
HW
VW
SVFLG
M2-M0
400H
FS
FULH
MODE
PSC3-0
SDATA
SCK
LE
PS3-0
8ch DAC
8ch DAC
8ch DAC
MB40558PF *3
A/D
A/D
A/D
D/A
MB40978PFQ
LPF
LPF
LPF
Pre AMP
M52327SP
CP
Y(G)
Cb(B)
Cr(R)
0.7Vpp
LPF
LPF
LPF
LPF
LPF
LPF
PCHD/VI
Pre AMP
M52327SP
DRIVE(RGB)
CLAMP
MB40528PF *3
Y(G)
Cb(B)
Cr(R)
A/D
A/D
A/D
Y
Cb
Cr
MPX
F157
CbCr
PANORAMIC
JCC5025
Cb
Cr
MPX
CbCr
F157
PANORAMA
Y
CbCr
F157
LINE
DOUBLER
MATRIX
GMVLD8
PHD
CLK
VD
ODD
R
G
B
PANORAMA
PCHD/VI
SCAN CONVERTER
ENHANCER
MN7C006T9D
LHD
LVD
R
G
B
PANEL I/F
GAMMA
DITHER
OSD MIX
FPGA 10K50
R
G
B
CLK
HD
VD
HSYNC
VSYNC
PANEL
INTERFACE
CLP
ADCLK
RGB
HD
VD
CONTRAST
COMPEN.
M52759SP
HD
VD
MPXCLK
1/2
PCHD/VI
1/2
CLK1
CLK2
CLK3
PLL1
ICS1522
PLL2
ICS1522
PLL3
ICS1522
ODD
VD
HD
HD
HFBACK

CIRCUIT DIAGRAMS *[FILTER PWB CIRCUIT DIAGRAM]*

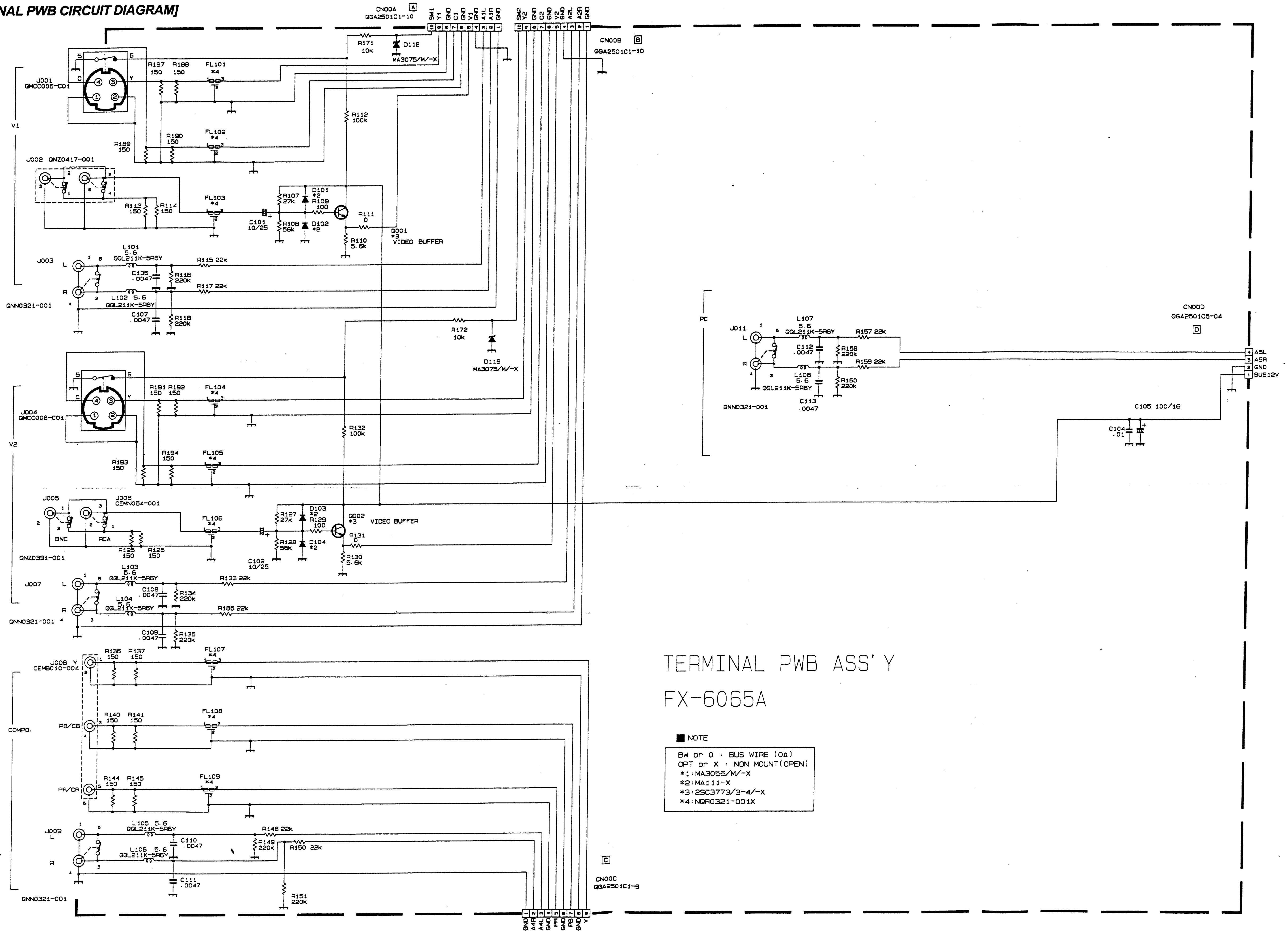

SEESAW SW
QSW0699-001
RED
WJV0016-001A
WHITE
WJV0016-002A
AC INLET
QNC0078-001
WJV0018-001A
WJJ0095-001A
CN0H3
QGAB801C1-02
H3
F901 10A/250V
QMFZ041-100-J1
C903
QFZ9040-105
LF903
QQR0810-001
LF902
QQR1025-001
LF901
QQR1025-001
H1
CN0H1
QGAB801C1-02
CN0H2
X
H2
WJJ0094-001A
TO POWER UNIT
1
2
3
4
POWER CODE
QMPE100-250-K (for US)
QMPL050-250-K (for EU)
QMPP070-250-K (for UK)

FILTER PWB ASS'Y
FX-9063A

NOTE

BW or 0 : BUS WIRE (0Ω)
OPT or X : NON MOUNT(OPEN)

[TERMINAL PWB CIRCUIT DIAGRAM]

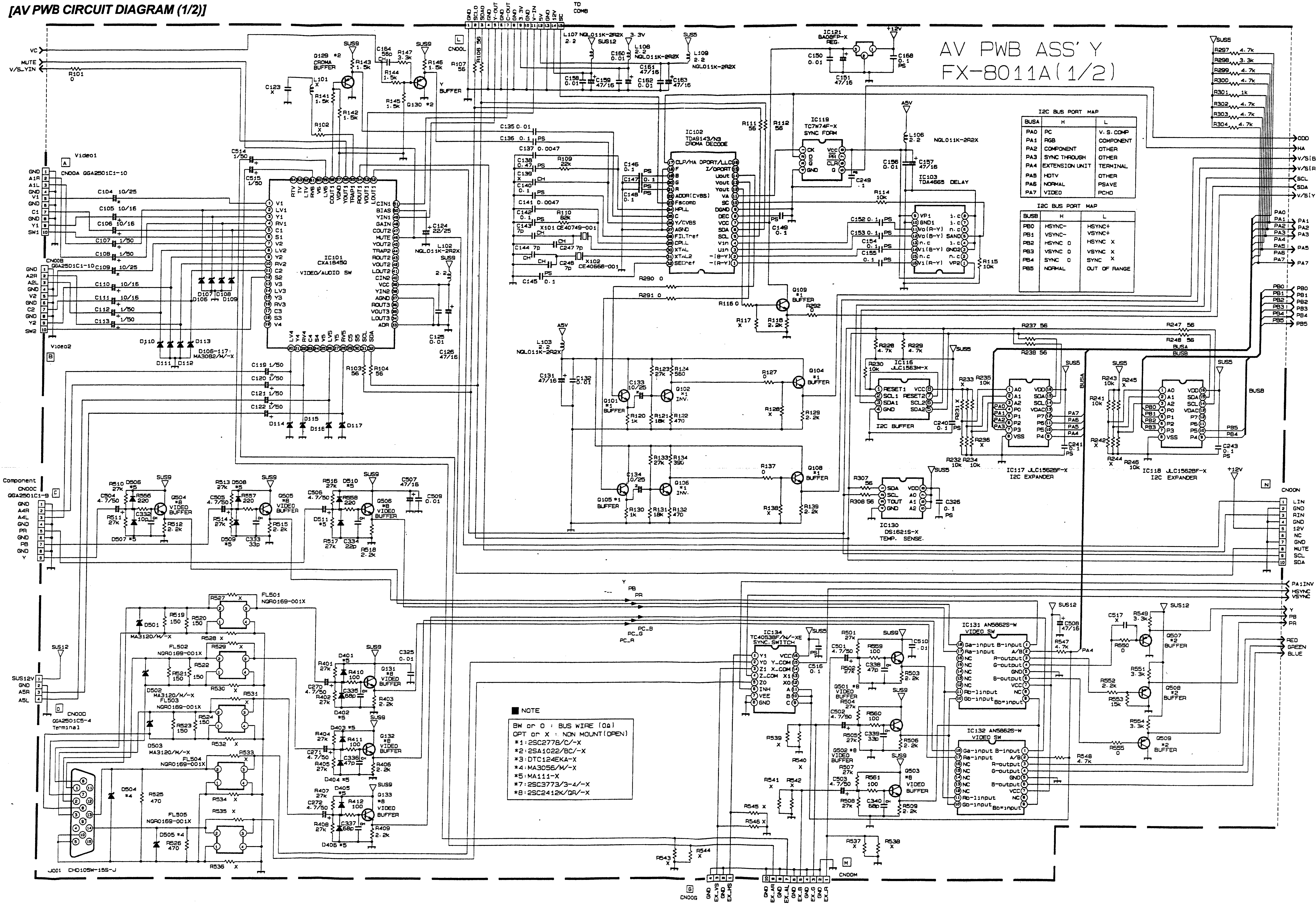

CN00A QGA2501C1-10
SW1 Y1 GND C1 GND V1 GND A1L A1R GND
SW2 Y2 GND C2 GND V2 GND A2L A2R GND
CN00B QGA2501C1-10
J001 QMCC006-C01
V1
R187 150
R188 150
FL101 *4
R171 10k
D118 MA3075/M/-X
R112 100k
R189 150
R190 150
FL102 *4
J002 QNZ0417-001
R113 150
R114 150
FL103 *4
C101 10/25
R107 27k
R108 56k
D101 *2
D102 *2
R109 100
R111 0
R110 5.6k
Q001 *3 VIDEO BUFFER
J003
L101 5.6 QQL211K-5R6Y
C106 .0047
R116 220k
R115 22k
R117 22k
L102 5.6 QQL211K-5R6Y
C107 .0047
R118 220k
QNN0321-001
R172 10k
D119 MA3075/M/-X
J004 QMCC006-C01
V2
R191 150
R192 150
FL104 *4
R132 100k
R193 150
R194 150
FL105 *4
J005
J006 CEMN054-001
BNC
RCA
R125 150
R126 150
QNZ0391-001
FL106 *4
C102 10/25
R127 27k
R128 56k
D103 *2
D104 *2
R129 100
Q002 *3 VIDEO BUFFER
R131 0
R130 5.6k
J007
L103 5.6 QQL211K-5R6Y
C108 .0047
R134 220k
R133 22k
L104 5.6 QQL211K-5R6Y
R186 22k
C109 .0047
R135 220k
QNN0321-001
J008 Y CEMB010-004
R136 150
R137 150
FL107 *4
COMPO.
PB/CB
R140 150
R141 150
FL108 *4
PR/CR
R144 150
R145 150
FL109 *4
J009 L R
L105 5.6 QQL211K-5R6Y
C110 .0047
R148 22k
R149 220k
R150 22k
L106 5.6 QQL211K-5R6Y
C111 .0047
R151 220k
QNN0321-001
CN00C QGA2501C1-9
GND A4R A4L GND PR GND PB GND Y
PC
J011
L107 5.6 QQL211K-5R6Y
C112 .0047
R158 220k
R157 22k
R159 22k
L108 5.6 QQL211K-5R6Y
C113 .0047
R160 220k
QNN0321-001
CN00D QGA2501C5-04
A5L A5R GND SUS12V
C105 100/16
C104 .01
A
B
C
D

TERMINAL PWB ASS' Y
FX-6065A

■ NOTE

BW or 0 : BUS WIRE (0Ω)
OPT or X : NON MOUNT(OPEN)
*1:MA3056/M/-X
*2:MA111-X
*3:2SC3773/3-4/-X
*4:NQR0321-001X

[AV PWB CIRCUIT DIAGRAM (1/2)]


AV PWB ASS'Y
FX-8011A(1/2)
IC101 CXA1845Q VIDEO/AUDIO SW
IC102 TDA9143/N3 CROMA DECODE
IC103 TDA4665 DELAY
IC116 JLC1563M-X I2C BUFFER
IC117 JLC1562BF-X I2C EXPANDER
IC118 JLC1562BF-X I2C EXPANDER
IC119 TC7W74F-X SYNC FORM
IC121 BA08FP-X REG.
IC130 DS1621S-X TEMP. SENSE.
IC131 AN5862S-W VIDEO SW
IC132 AN5862S-W VIDEO SW
IC134 TC4053BF/N/-XE SYNC. SWITCH
Q129 CROMA BUFFER
Q130 Y BUFFER
Q101 BUFFER
Q102 INV.
Q104 BUFFER
Q105 BUFFER
Q106 INV.
Q108 BUFFER
Q109 BUFFER
Q131 VIDEO BUFFER
Q132 VIDEO BUFFER
Q133 VIDEO BUFFER
Q501 VIDEO BUFFER
Q502 VIDEO BUFFER
Q503 VIDEO BUFFER
Q504 VIDEO BUFFER
Q505 VIDEO BUFFER
Q506 VIDEO BUFFER
Q507 BUFFER
Q508 BUFFER
Q509 BUFFER
CN00A QGA2501C1-10 Video1
CN00B QGA2501C1-10 Video2
Component CN00C QGA2501C1-9
CN00D QGA2501C5-4 Terminal
J001 CHD105W-15S-J
CN00G
CN00M
CN00N
CN00L
TO COMB
VC
MUTE
V/S_YIN
ODD
HA
V/S(B_Y
V/S(R_Y
SCL
SDA
V/S(Y)
PA1INV
HSYNC
VSYNC
Y
PB
PR
RED
GREEN
BLUE
BUSA
BUSB

I2C BUS PORT MAP

BUSA	H	L
PA0	PC	V.S.COMP
PA1	RGB	COMPONENT
PA2	COMPONENT	OTHER
PA3	SYNC THROUGH	OTHER
PA4	EXTENSION UNIT	TERMINAL
PA5	HDTV	OTHER
PA6	NORMAL	PSAVE
PA7	VIDEO	PCHD

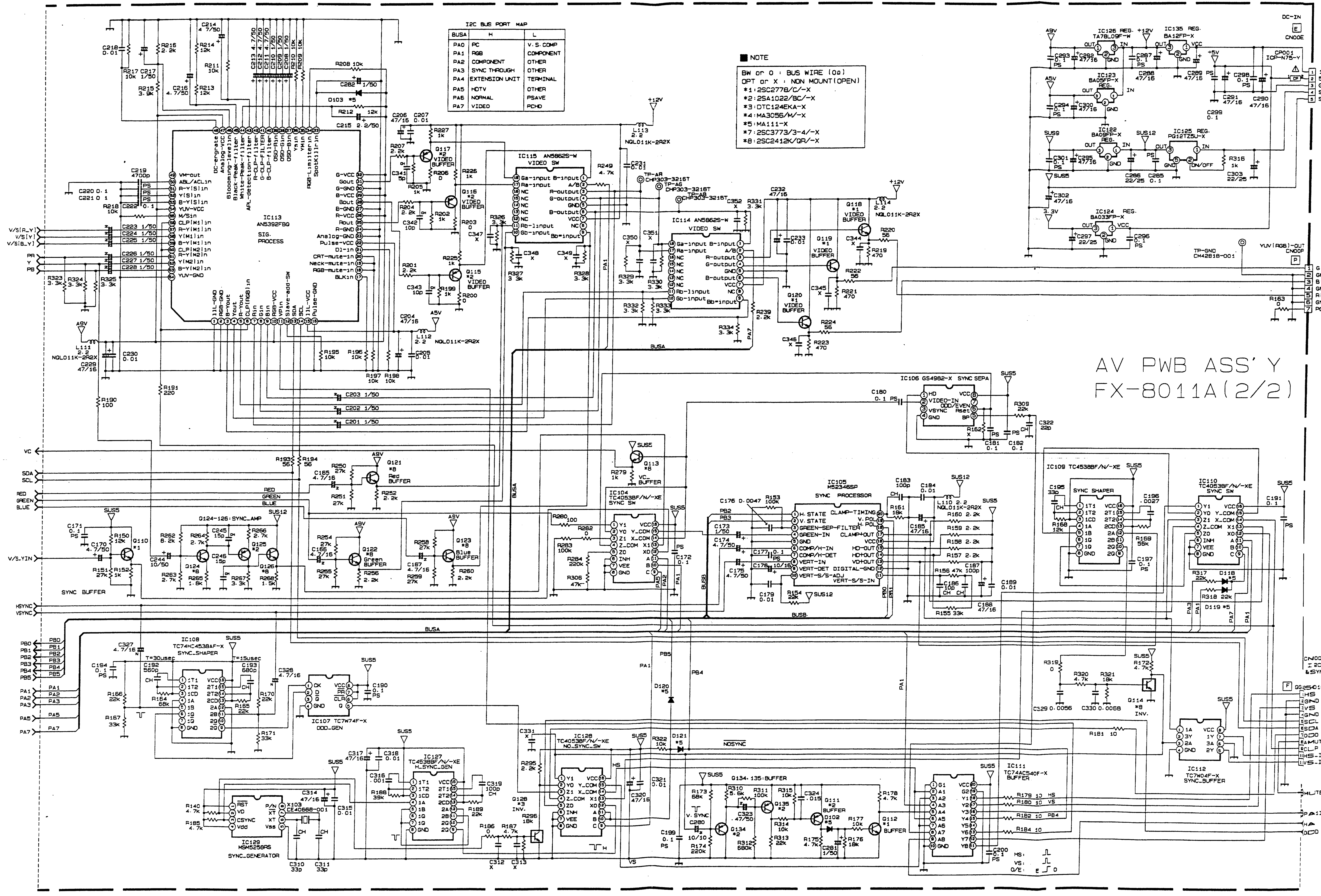
I2C BUS PORT MAP

BUSB	H	L
PB0	HSYNC-	HSYNC+
PB1	VSYNC-	VSYNC+
PB2	HSYNC O	HSYNC X
PB3	VSYNC O	VSYNC X
PB4	SYNC O	SYNC X
PB5	NORMAL	OUT OF RANGE

■ NOTE

BW or O : BUS WIRE (0Ω)
OPT or X : NON MOUNT(OPEN)
*1:2SC2778/C/-X
*2:2SA1022/BC/-X
*3:DTC124EKA-X
*4:MA3056/M/-X
*5:MA111-X
*7:2SC3773/3-4/-X
*8:2SC2412K/QR/-X

[AV PWB CIRCUIT DIAGRAM (2/2)]


AV PWB ASS'Y
FX-8011A(2/2)
IC113 AN5392FBQ SIG. PROCESS
IC115 AN5862S-W VIDEO SW
IC114 AN5862S-W VIDEO SW
IC106 GS4982-X SYNC SEPA
IC105 M52346SP SYNC PROCESSOR
IC104 TC4053BF/N/-XE SYNC SW
IC109 TC4538BF/N/-XE SYNC SHAPER
IC110 TC4053BF/N/-XE SYNC SW
IC108 TC74HC4538AF-X SYNC_SHAPER
IC107 TC7W74F-X ODD_GEN
IC127 TC4538BF/N/-XE H_SYNC_GEN
IC128 TC4053BF/N/-XE NO_SYNC_SW
IC129 MSM5258RS SYNC_GENERATOR
IC111 TC74AC540F-X BUFFER
IC112 TC7W04F-X SYNC_BUFFER
IC126 REG. TA78L09F-W
IC135 REG. BA12FP-X
IC123 BA05FP-X REG.
IC122 BA09FP-X REG.
IC125 REG. PQ12TZ5U-X
IC124 REG. BA033FP-X
Q124-126:SYNC_AMP
Q134, 135:BUFFER
SYNC BUFFER
CP001 ICP-N75-Y
DC-IN
YUV(RGB)-OUT
CN00F I2C &SYNC-OUT
VC
SDA
SCL
RED
GREEN
BLUE
V/S-YIN
HSYNC
VSYNC
BUSA
BUSB

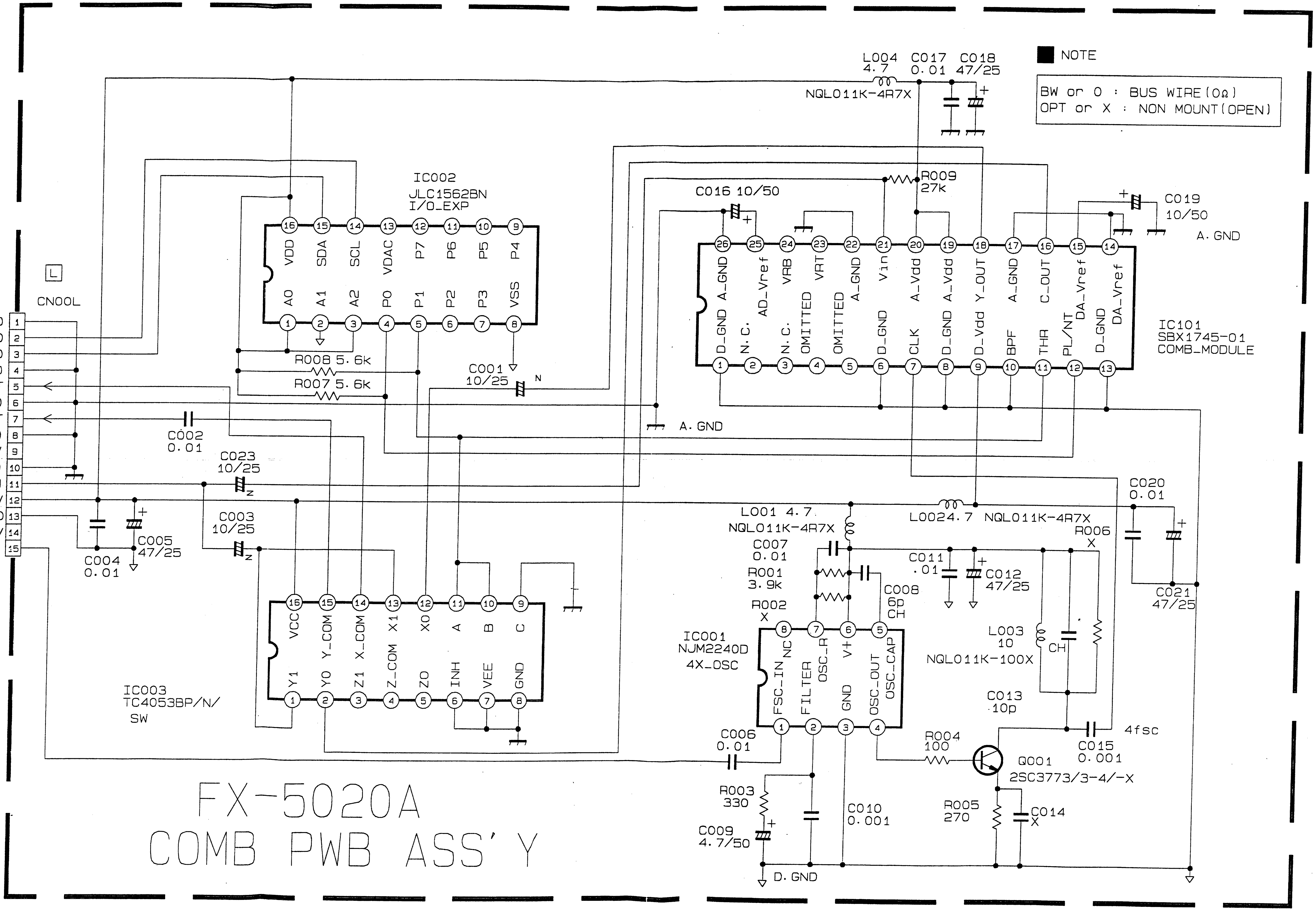
I2C BUS PORT MAP

BUSA	H	L
PA0	PC	V.S.COMP
PA1	RGB	COMPONENT
PA2	COMPONENT	OTHER
PA3	SYNC THROUGH	OTHER
PA4	EXTENSION UNIT	TERMINAL
PA5	HDTV	OTHER
PA6	NORMAL	PSAVE
PA7	VIDEO	PCHD

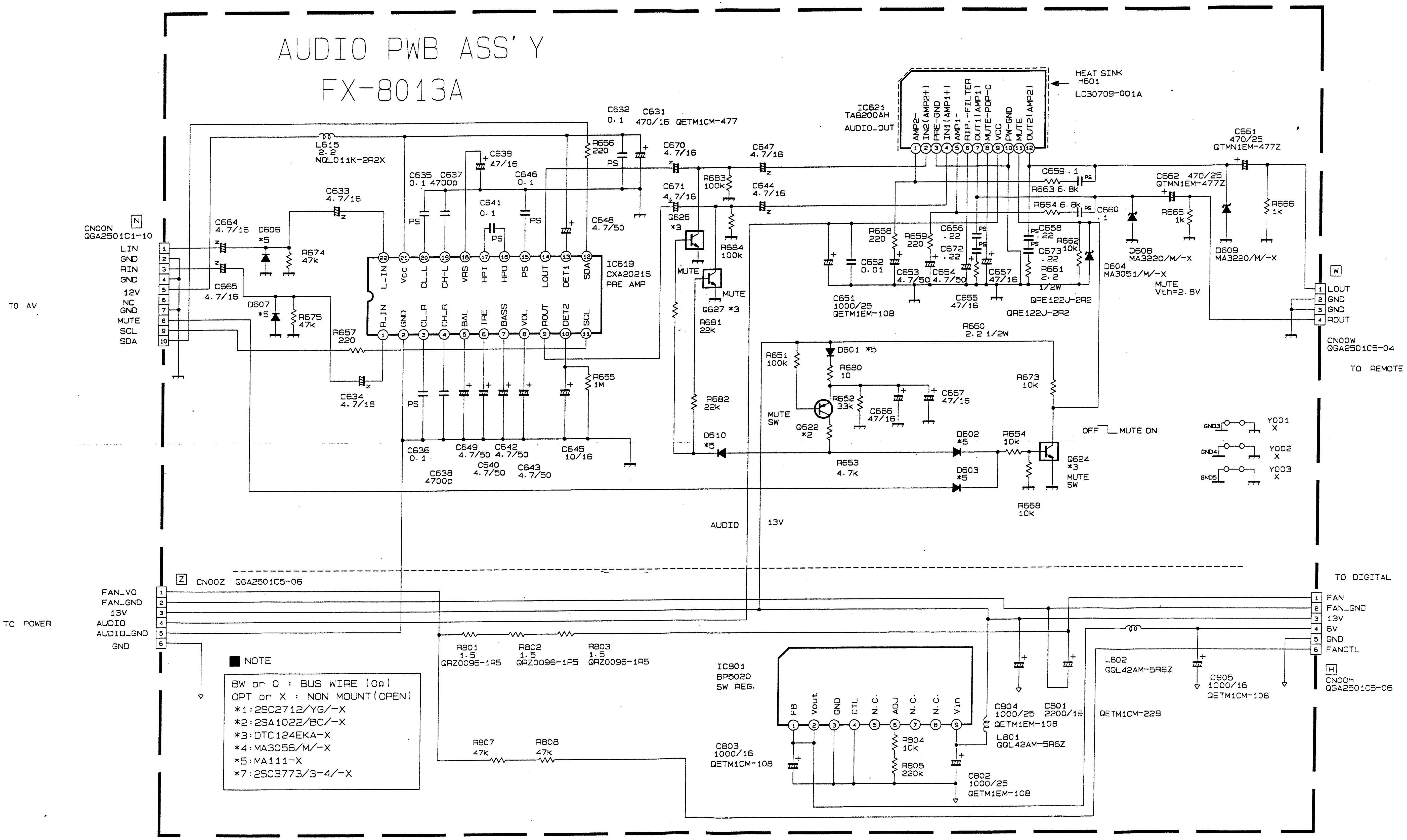
■ NOTE

BW or 0 : BUS WIRE (0Ω)
OPT or X : NON MOUNT(OPEN)
*1:2SC2778/C/-X
*2:2SA1022/BC/-X
*3:DTC124EKA-X
*4:MA3056/M/-X
*5:MA111-X
*7:2SC3773/3-4/-X
*8:2SC2412K/QR/-X

[COMB PWB CIRCUIT DIAGRAM]


NOTE
BW or 0 : BUS WIRE(0Ω)
OPT or X : NON MOUNT(OPEN)
L004 4.7
NQL011K-4R7X
C017 0.01
C018 47/25
IC002
JLC1562BN
I/O_EXP
VDD SDA SCL VDAC P7 P6 P5 P4
A0 A1 A2 P0 P1 P2 P3 VSS
R009 27k
C016 10/50
C019 10/50
A. GND
D_GND A_GND
N.C. AD_Vref
N.C. VRB
OMITTED VRT
OMITTED A_GND
D_GND Vin
CLK A_Vdd
D_GND A_Vdd
D_Vdd Y_OUT
BPF A_GND
THR C_OUT
PL/NT DA_Vref
D_GND DA_Vref
IC101
SBX1745-01
COMB_MODULE
L
CN00L
GND
SCL0
SDA0
GND
Y-OUT
GND
C-OUT
GND
3.3V
GND
V-IN
5V
GND
12V
SC
R008 5.6k
R007 5.6k
C001 10/25
N
A. GND
C002 0.01
C023 10/25
C003 10/25
C004 0.01
C005 47/25
VCC Y_COM X_COM X1 X0 A B C
Y1 Y0 Z1 Z_COM Z0 INH VEE GND
IC003
TC4053BP/N/
SW
L001 4.7
NQL011K-4R7X
L0024.7 NQL011K-4R7X
C020 0.01
C021 47/25
R006 X
C007 0.01
R001 3.9k
C008 6p CH
R002 X
C011 .01
C012 47/25
IC001
NJM2240D
4X_OSC
NC OSC_R V+ OSC_CAP
FSC_IN FILTER GND OSC_OUT
L003 10
NQL011K-100X
CH
C013 10p
4fsc
C006 0.01
R004 100
Q001
2SC3773/3-4/-X
C015 0.001
R003 330
C009 4.7/50
C010 0.001
R005 270
C014 X
D. GND
FX-5020A
COMB PWB ASS'Y

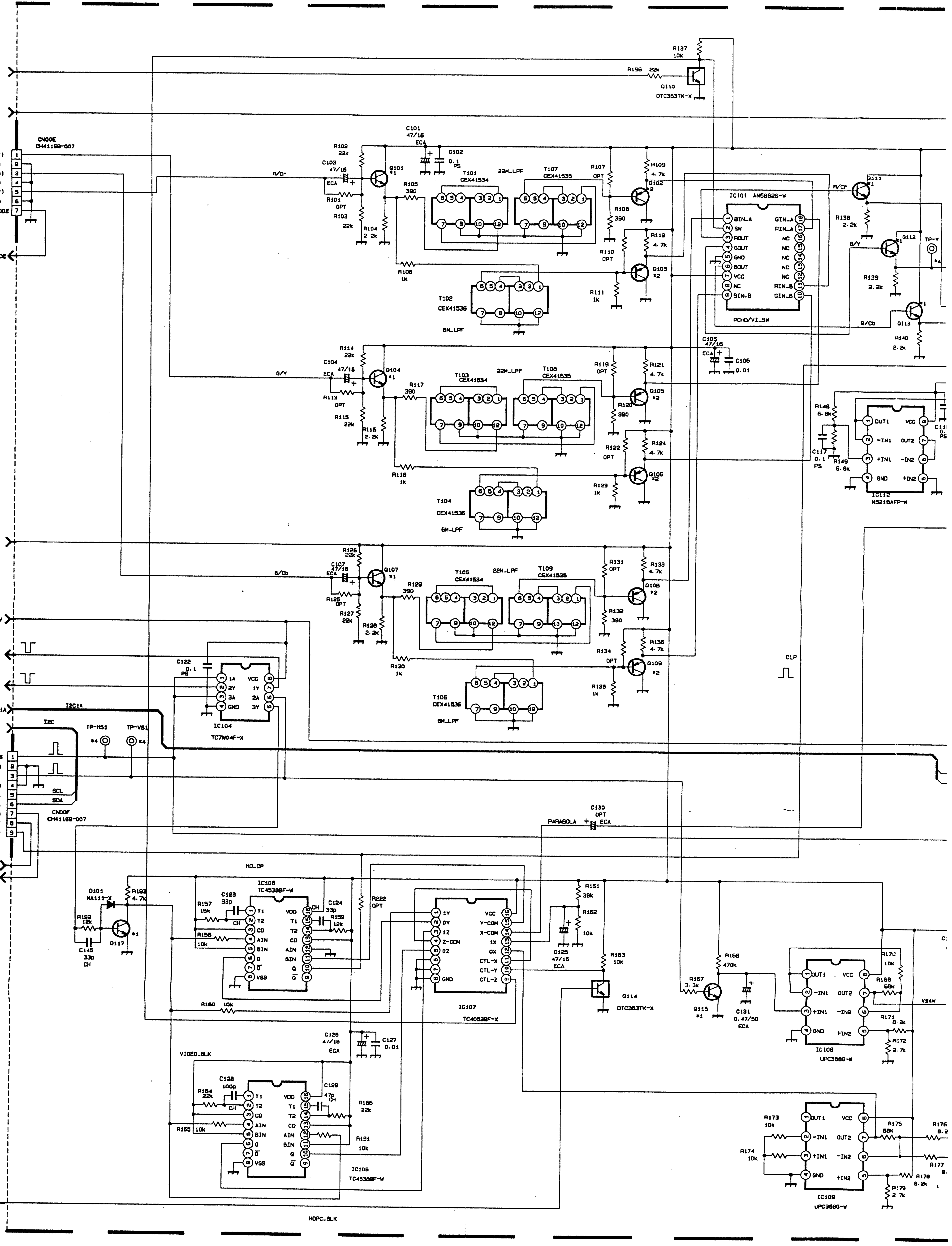
[AUDIO PWB CIRCUIT DIAGRAM]

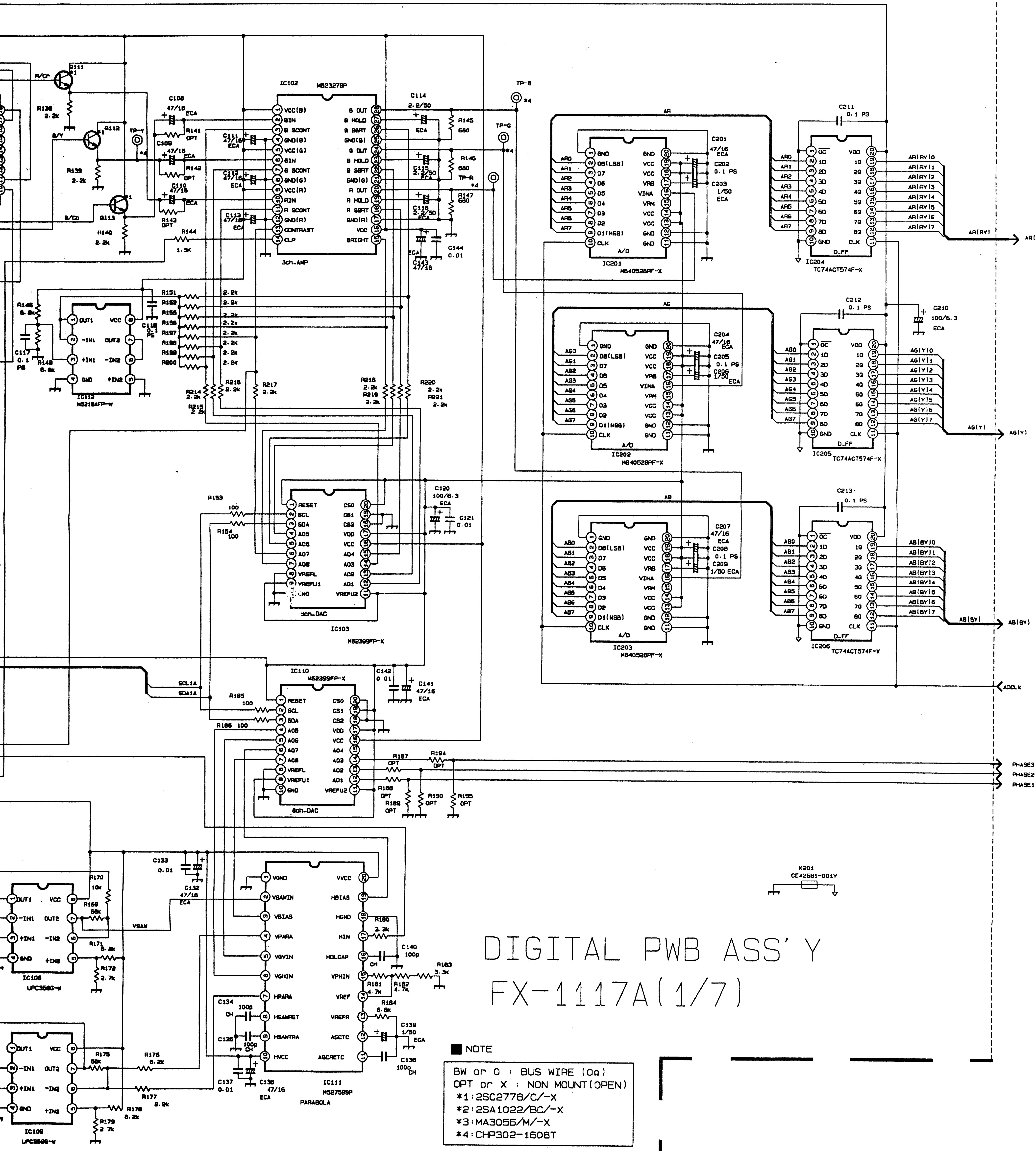

AUDIO PWB ASS'Y
FX-8013A
CN00N QGA2501C1-10
LIN
GND
RIN
GND
12V
NC
GND
MUTE
SCL
SDA
TO AV
L615 2.2 NQL011K-2R2X
C632 0.1
C631 470/16 QETM1CM-477
R656 220
C633 4.7/16
C664 4.7/16
D606 *5
R674 47k
C665 4.7/16
D607 *5
R675 47k
R657 220
C634 4.7/16
C635 0.1
C637 4700p
C639 47/16
C641 0.1
C646 0.1
C648 4.7/50
IC619 CXA2021S PRE AMP
L_IN
Vcc
CL_L
CH_L
VRS
HPI
HPO
PS
LOUT
DET1
SDA
R_IN
GND
CL_R
CH_R
BAL
TRE
BASS
VOL
ROUT
DET2
SCL
R655 1M
C636 0.1
C638 4700p
C649 4.7/50
C642 4.7/50
C640 4.7/50
C643 4.7/50
C645 10/16
C670 4.7/16
C671 4.7/16
R683 100k
R684 100k
C647 4.7/16
C644 4.7/16
Q626 *3
MUTE
Q627 *3
R681 22k
R682 22k
D610 *5
IC621 TA8200AH
AUDIO_OUT
AMP2-
IN2(AMP2+)
PRE-GND
IN1(AMP1+)
AMP1-
RIP.-FILTER
OUT1(AMP1)
MUTE-PDP-C
VCC
PW-GND
MUTE
OUT2(AMP2)
HEAT SINK H601
LC30709-001A
C659 .1
R663 6.8k
R664 6.8k
C660 .1
C662 470/25 QTMN1EM-477Z
C661 470/25 QTMN1EM-477Z
R665 1k
R666 1k
D608 MA3220/M/-X
D609 MA3220/M/-X
D604 MA3051/M/-X
MUTE Vth=2.8V
R658 220
R659 220
C656 .22
C672 .22
C658 .22
C673 .22
R662 10k
R661 2.2 1/2W
QRE122J-2R2
C652 0.01
C653 4.7/50
C654 4.7/50
C657 47/16
C651 1000/25 QETM1EM-108
C655 47/16
R660 2.2 1/2W
R651 100k
D601 *5
R680 10
R652 33k
C666 47/16
C667 47/16
MUTE SW
Q622 *2
R653 4.7k
D602 *5
D603 *5
R654 10k
R673 10k
Q624 *3 MUTE SW
R668 10k
OFF MUTE ON
GND3 Y001 X
GND4 Y002 X
GND5 Y003 X
CN00W QGA2501C5-04
LOUT
GND
GND
ROUT
TO REMOTE
AUDIO
13V
CN00Z QGA2501C5-06
FAN_VO
FAN_GND
13V
AUDIO
AUDIO_GND
GND
TO POWER
R801 1.5 QRZ0096-1R5
R802 1.5 QRZ0096-1R5
R803 1.5 QRZ0096-1R5
R807 47k
R808 47k
IC801 BP5020 SW REG.
FB
Vout
GND
CTL
N.C.
ADJ
N.C.
N.C.
Vin
R804 10k
R805 220k
C803 1000/16 QETM1CM-108
C802 1000/25 QETM1EM-108
C804 1000/25 QETM1EM-108
C801 2200/16 QETM1CM-228
L801 QQL42AM-5R6Z
L802 QQL42AM-5R6Z
C805 1000/16 QETM1CM-108
TO DIGITAL
FAN
FAN_GND
13V
5V
GND
FANCTL
CN00H QGA2501C5-06

■ NOTE

BW or 0 : BUS WIRE (0Ω)
OPT or X : NON MOUNT(OPEN)
*1:2SC2712/YG/-X
*2:2SA1022/BC/-X
*3:DTC124EKA-X
*4:MA3056/M/-X
*5:MA111-X
*7:2SC3773/3-4/-X

[DIGITAL PWB CIRCUIT DIAGRAM (1/7)]

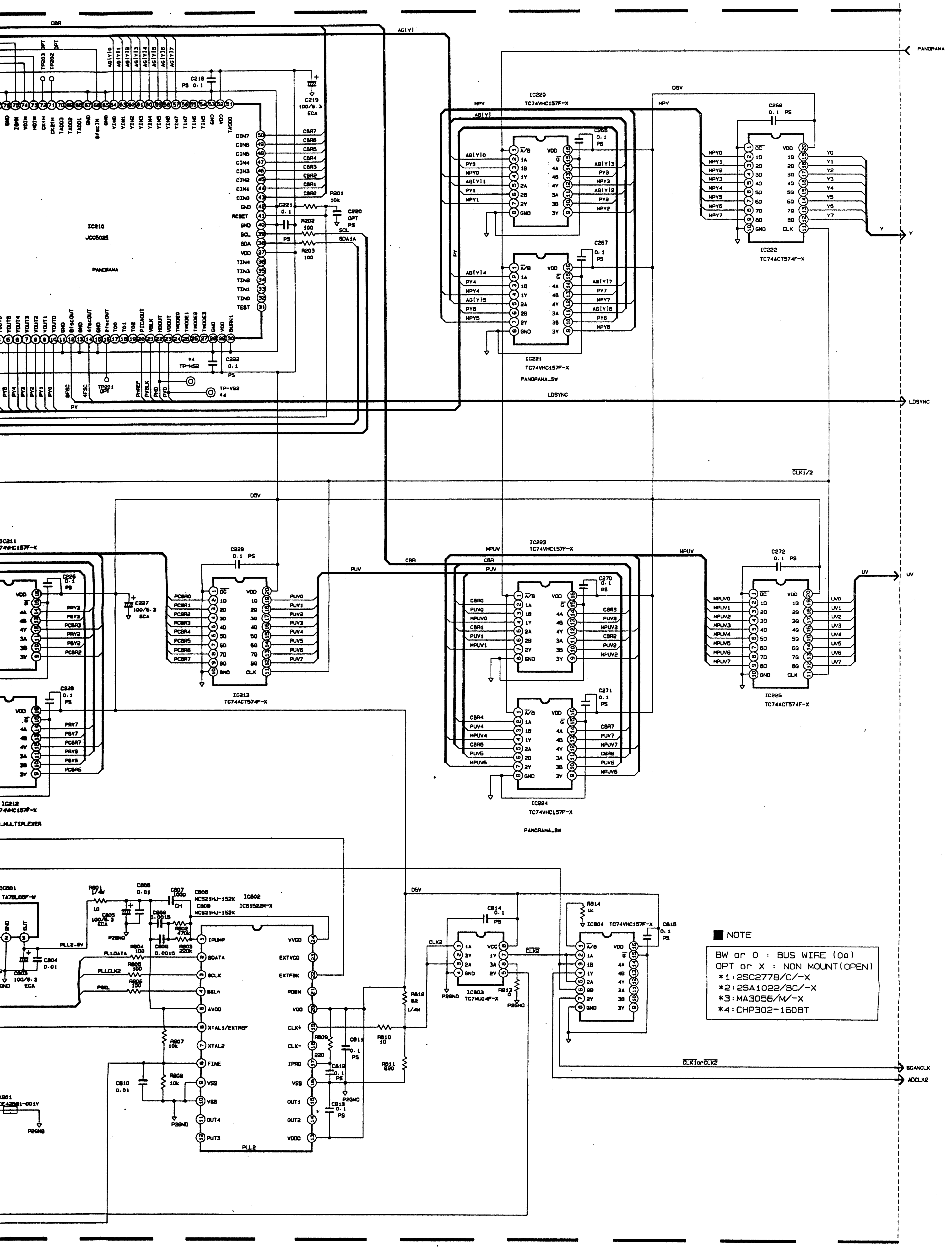

PCHD/VI
D5V
CN00E
CH41169-007
B(Y)
GND
B(U)
GND
R(V)
GND
PCHODE
12V
A5V
HSYNC1
VSYNC1
I2C1A
I2C
HS
GND
VS
GND
SCL
SDA
ODD
AMUTE
CLP
CN00F
CH41169-007
AMUTE
ODD
HDTV
R137 10k
R196 22k
Q110 DTC363TK-X
C101 47/16 ECA
C102 0.1 PS
R102 22k
C103 47/16 ECA
Q101 *1
R/Cr
R101 OPT
R103 22k
R104 2.2k
R105 390
T101 CEX41534
22M_LPF
T107 CEX41535
R107 OPT
R109 4.7k
Q102 *2
R108 390
R110 OPT
R112 4.7k
Q103 *2
R111 1k
R106 1k
T102 CEX41536
6M_LPF
IC101 AN5862S-W
BIN_A
SW
ROUT
GOUT
GND
BOUT
VCC
NC
BIN_B
GIN_A
RIN_A
NC
RIN_B
GIN_B
PCHD/VI_SW
C105 47/16 ECA
C106 0.01
R/Cr
Q111 *1
R138 2.2k
G/Y
Q112 *1
TP-Y *4
R139 2.2k
B/Cb
Q113
R140 2.2k
R114 22k
C104 47/16 ECA
G/Y
Q104 *1
R113 OPT
R115 22k
R116 2.2k
R117 390
T103 CEX41534
22M_LPF
T108 CEX41535
R119 OPT
R121 4.7k
Q105 *2
R120 390
R122 OPT
R124 4.7k
Q106 *2
R123 1k
R118 1k
T104 CEX41535
6M_LPF
R148 6.8k
C117 0.1 PS
R149 6.8k
OUT1
-IN1
+IN1
GND
VCC
OUT2
-IN2
+IN2
IC112 M5218AFP-W
R126 22k
C107 47/16 ECA
B/Cb
Q107 *1
R125 OPT
R127 22k
R128 2.2k
R129 390
T105 CEX41534
22M_LPF
T109 CEX41535
R131 OPT
R133 4.7k
Q108 *2
R132 390
R134 OPT
R136 4.7k
Q109 *2
R135 1k
R130 1k
T106 CEX41536
6M_LPF
CLP
C122 0.1 PS
1A
2Y
3A
GND
VCC
1Y
2A
3Y
IC104 TC7W04F-X
I2C1A
I2C
TP-HS1 *4
TP-VS1 *4
SCL
SDA
C130 OPT ECA
PARABOLA
HD_CP
IC105 TC4538BF-W
R157 15k
C123 33p CH
C124 33p CH
R159 12k
R158 10k
T1
T2
CD
AIN
BIN
Q
Q̄
VSS
VDD
R222 OPT
R160 10k
D101 MA111-X
R193 4.7k
R192 12k
C145 330 CH
Q117 *1
IC107 TC4053BF-X
1Y
0Y
1Z
Z-COM
0Z
GND
VCC
Y-COM
X-COM
1X
0X
CTL-X
CTL-Y
CTL-Z
R161 39k
R162 10k
C125 47/16 ECA
R163 10k
Q114 DTC363TK-X
R166 470k
R167 3.3k
Q115 *1
C131 0.47/50 ECA
IC108 UPC358G-W
R170 10k
R169 68k
R171 8.2k
R172 2.7k
VS4W
C126 47/16 ECA
C127 0.01
VIDEO_BLK
C128 100p
R164 22k
C129 47p CH
R165 10k
R166 22k
R191 10k
IC106 TC4538BF-W
HDPC_BLK
R173 10k
R174 10k
R175 68k
R176 8.2
R177 8.
R178 8.2k
R179 2.7k
IC109 UPC358G-W


IC102 M52327SP
3ch_AMP
VCC(B)
BIN
B SCONT
GND(B)
VCC(G)
GIN
G SCONT
GND(G)
VCC(R)
RIN
R SCONT
GND(R)
CONTRAST
CLP
B OUT
B HOLD
B SBRT
G OUT
G HOLD
G SBRT
R OUT
R HOLD
R SBRT
BRIGHT
Q111
Q112
Q113
R/Cr
B/Y
B/Cb
TP-Y
TP-G
TP-B
TP-R
IC112 M5218AFP-W
IC103 M62399FP-X
8ch_DAC
IC110 M62399FP-X
SCL1A
SDA1A
RESET
SCL
SDA
VREFL
VREFU1
VREFU2
IC201 M640528PF-X
IC202 M640528PF-X
IC203 M640528PF-X
A/D
D8(LSB)
D1(MSB)
VINA
VRB
VRM
CLK
IC204 TC74ACT574F-X
IC205 TC74ACT574F-X
IC206 TC74ACT574F-X
D_FF
AR
AG
AB
AR(RY)
AG(Y)
AB(BY)
ADCLK
PHASE3
PHASE2
PHASE1
IC111 M52759SP
PARABOLA
VGND
VSAWIN
VBIAS
VPARA
VGVIN
VGHIN
HPARA
HSAMPET
HSAMTRA
HVCC
VVCC
HBIAS
HGND
HIN
HOLCAP
VPHIN
VREF
VREFR
AGCTC
AGCRETC
VSAW
IC108 UPC3588-W
IC109 UPC3588-W
K201 CE42581-001Y

DIGITAL PWB ASS'Y
FX-1117A(1/7)

■ NOTE

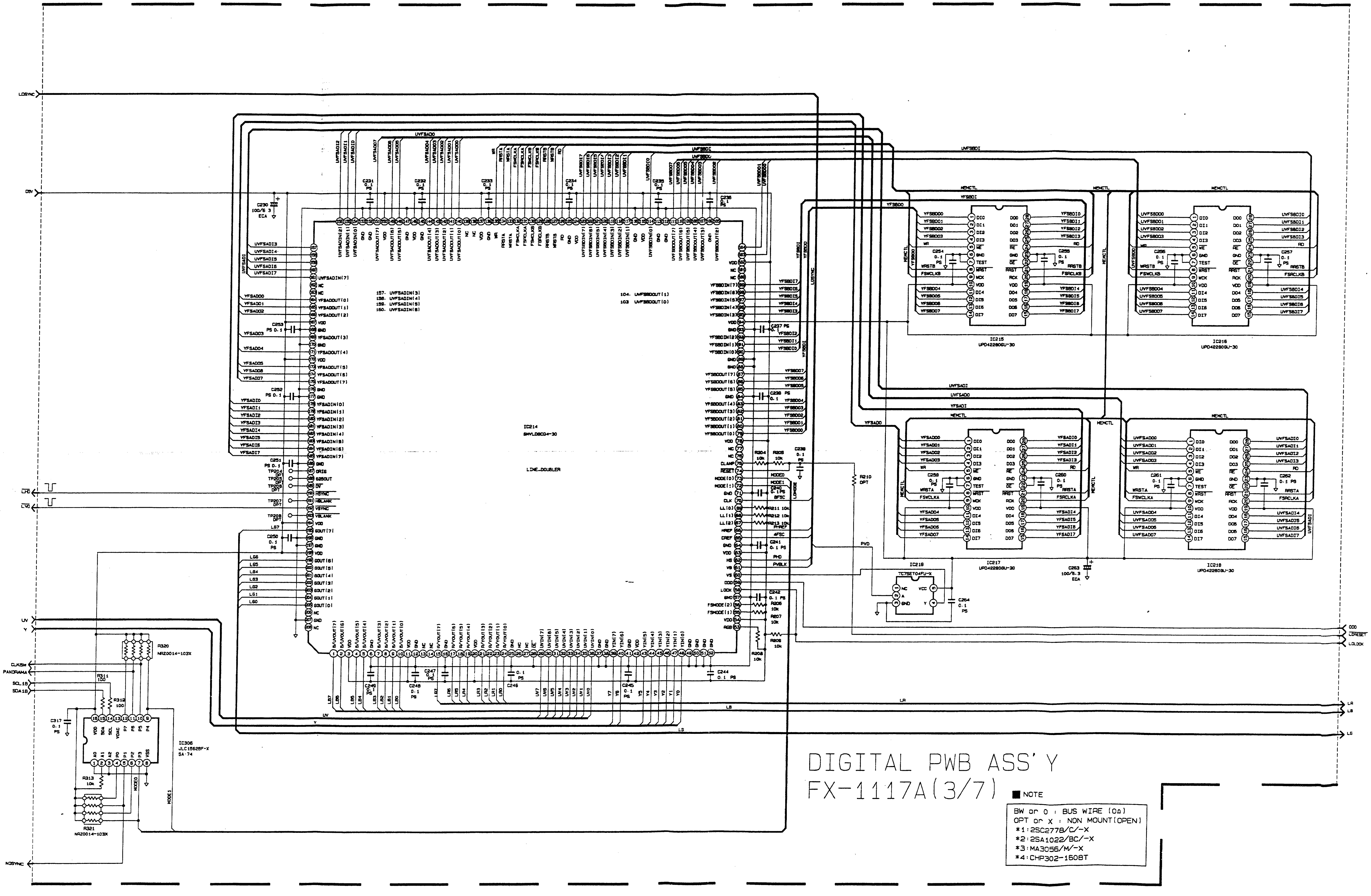
BW or O : BUS WIRE (0Ω)
OPT or X : NON MOUNT(OPEN)
*1:2SC2778/C/-X
*2:2SA1022/BC/-X
*3:MA3056/M/-X
*4:CHP302-1608T


IC210
JCC5025
PANORAMA
IC220
TC74VHC157F-X
IC221
TC74VHC157F-X
PANORAMA_SW
IC222
TC74ACT574F-X
IC211
IC212
MULTIPLEXER
IC213
TC74ACT574F-X
IC223
TC74VHC157F-X
IC224
TC74VHC157F-X
PANORAMA_SW
IC225
TC74ACT574F-X
IC801
TA78L05F-W
IC802
ICS1522M-X
PLL2
IC803
TC7WU04F-X
IC804
TC74VHC157F-X
PANORAMA
Y
LDSYNC
UV
SCANCLK
ADCLK2
D5V
CLK1/2
CLK1orCLK2

■ NOTE

BW or O : BUS WIRE (0Ω)
OPT or X : NON MOUNT(OPEN)
*1:2SC2778/C/-X
*2:2SA1022/BC/-X
*3:MA3056/M/-X
*4:CHP302-1608T

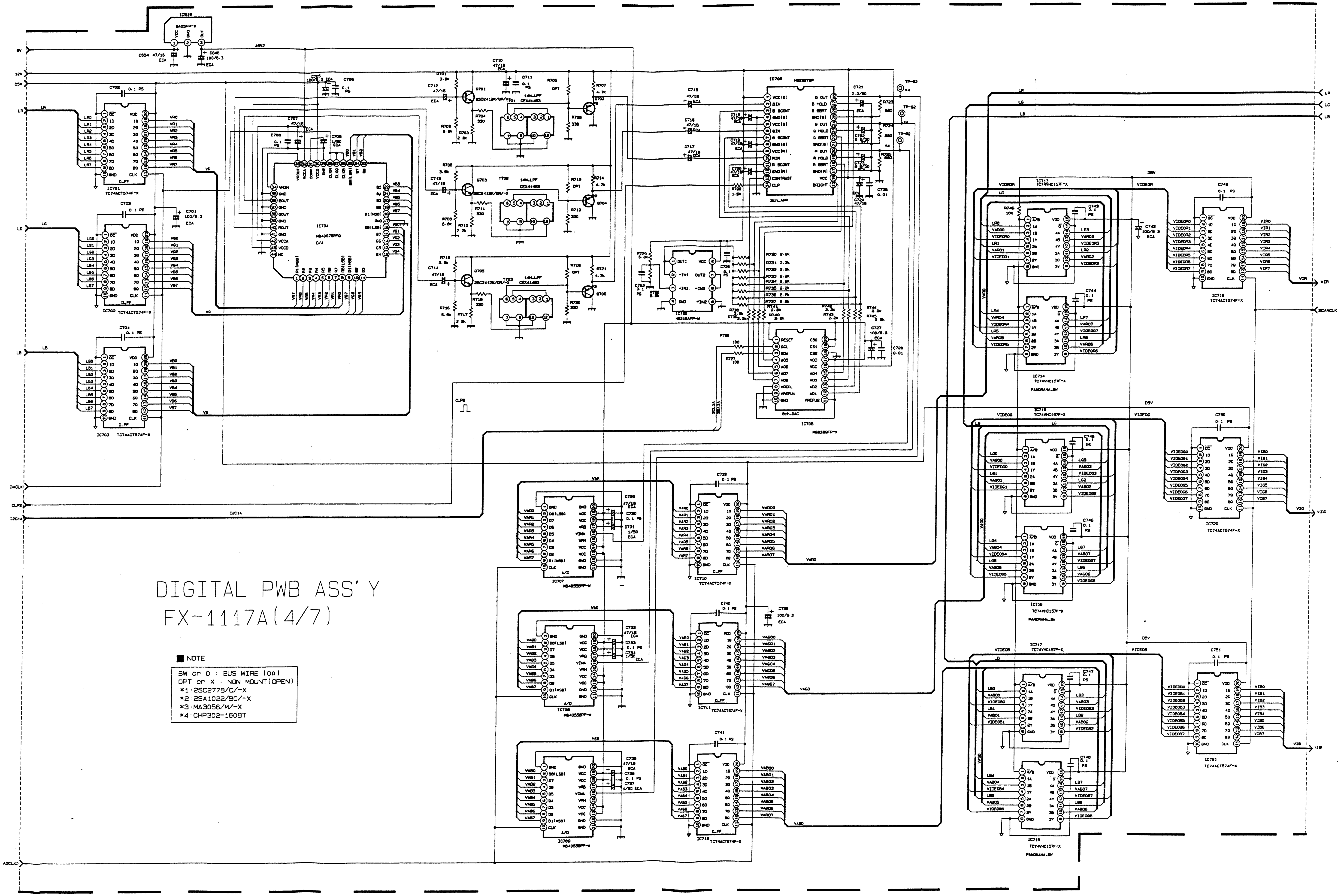
[DIGITAL PWB CIRCUIT DIAGRAM (3/7)]


LDSYNC
D5V
LPD
LVD
UV
Y
CLKSW
PANORAMA
SCL1B
SDA1B
NDSYNC
UVFSADO
UVFSADI
UVFSBDI
UVFSBDO
YFSBDO
YFSBDI
YFSADO
YFSADI
MEMCTL
IC214
SNVLD8CD4-30
LINE_DOUBLER
IC215
UPD42280GU-30
IC216
UPD42280GU-30
IC217
UPD42280GU-30
IC218
UPD42280GU-30
IC219
TC7SET04FU-X
C263
100/6.3
ECA
C264
0.1
PS
PVD
IC306
JLC1562BF-X
SA:74
C317
0.1
PS
R312
100
R313
10k
R311
100
R320
NRZ0014-103X
R321
NRZ0014-103X
MODE0
MODE1
C230
100/6.3
ECA
R210
OPT
CDD
LDRESET
LDLOCK
LA
LB
LS
DIGITAL PWB ASS'Y
FX-1117A(3/7)

■ NOTE

BW or 0 : BUS WIRE (0Ω)
OPT or X : NON MOUNT(OPEN)
*1:2SC2778/C/-X
*2:2SA1022/BC/-X
*3:MA3056/M/-X
*4:CHP302-1608T

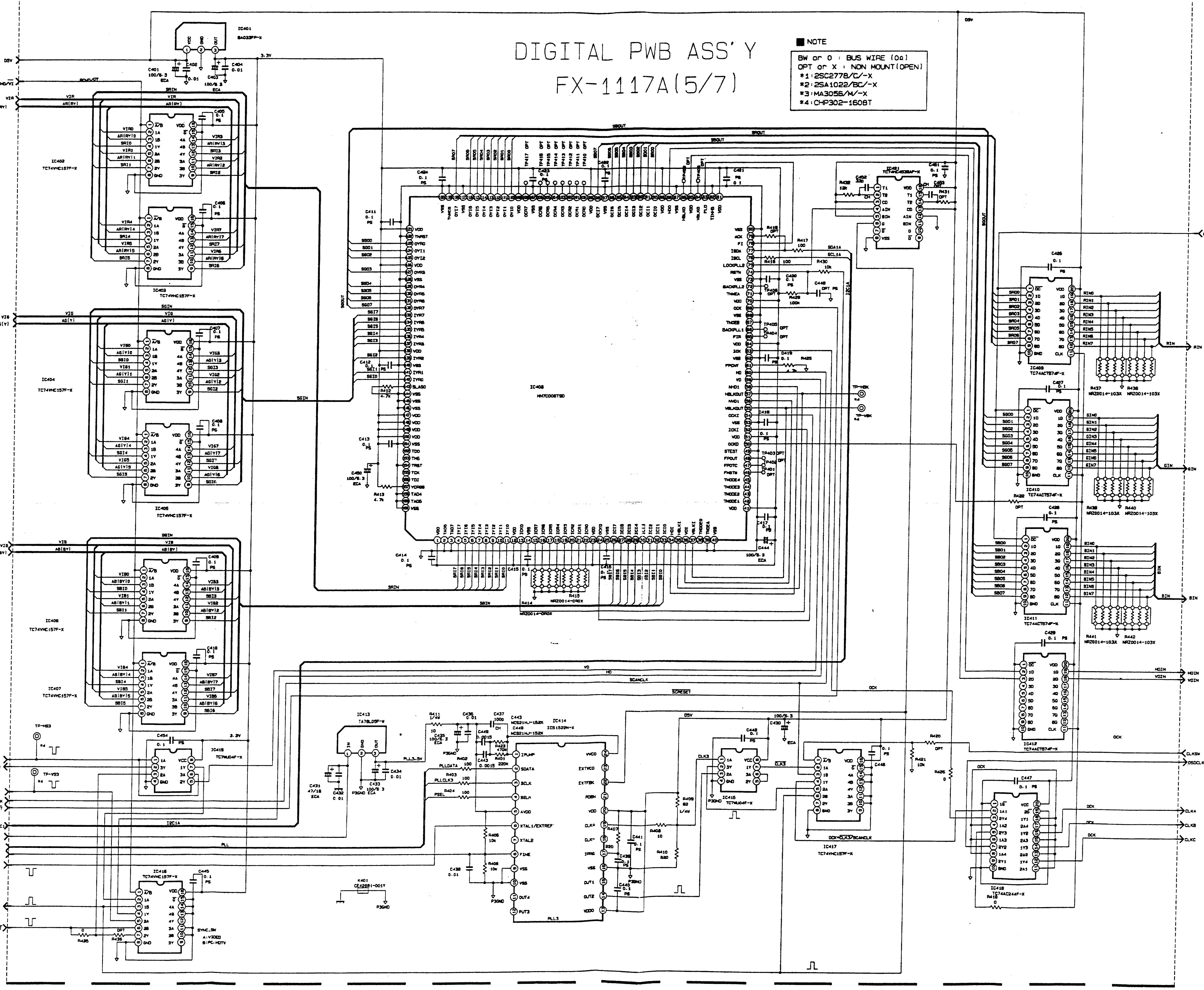
[DIGITAL PWB CIRCUIT DIAGRAM (4/7)]


IC616
BA05FP-X
IC701
TC74ACT574F-X
IC702
TC74ACT574F-X
IC703
TC74ACT574F-X
IC704
MB40978PFG
D/A
IC705
M52327SP
3ch_AMP
IC722
M5218AFP-W
IC706
8ch_DAC
IC707
MB40558PF-W
A/D
IC708
MB40558PF-W
IC709
MB40558PF-W
IC710
TC74ACT574F-X
IC711
TC74ACT574F-X
IC712
TC74ACT574F-X
IC713
TC74VHC157F-X
IC714
TC74VHC157F-X
PANORAMA_SW
IC715
TC74VHC157F-X
IC716
TC74VHC157F-X
PANORAMA_SW
IC717
TC74VHC157F-X
IC718
TC74VHC157F-X
PANORAMA_SW
IC719
TC74ACT574F-X
IC720
TC74ACT574F-X
IC721
TC74ACT574F-X
Q701
2SC2412K/QR/-X
T701
14H_LPF
CEX41483
T702
T703
5V
12V
D5V
LR
LG
LB
DACLK1
CLP2
I2C1A
ADCLK2
VIR
VIG
VIB
SCANCLK
TP-R2
TP-G2
TP-B2
D_FF
DIGITAL PWB ASS'Y
FX-1117A(4/7)

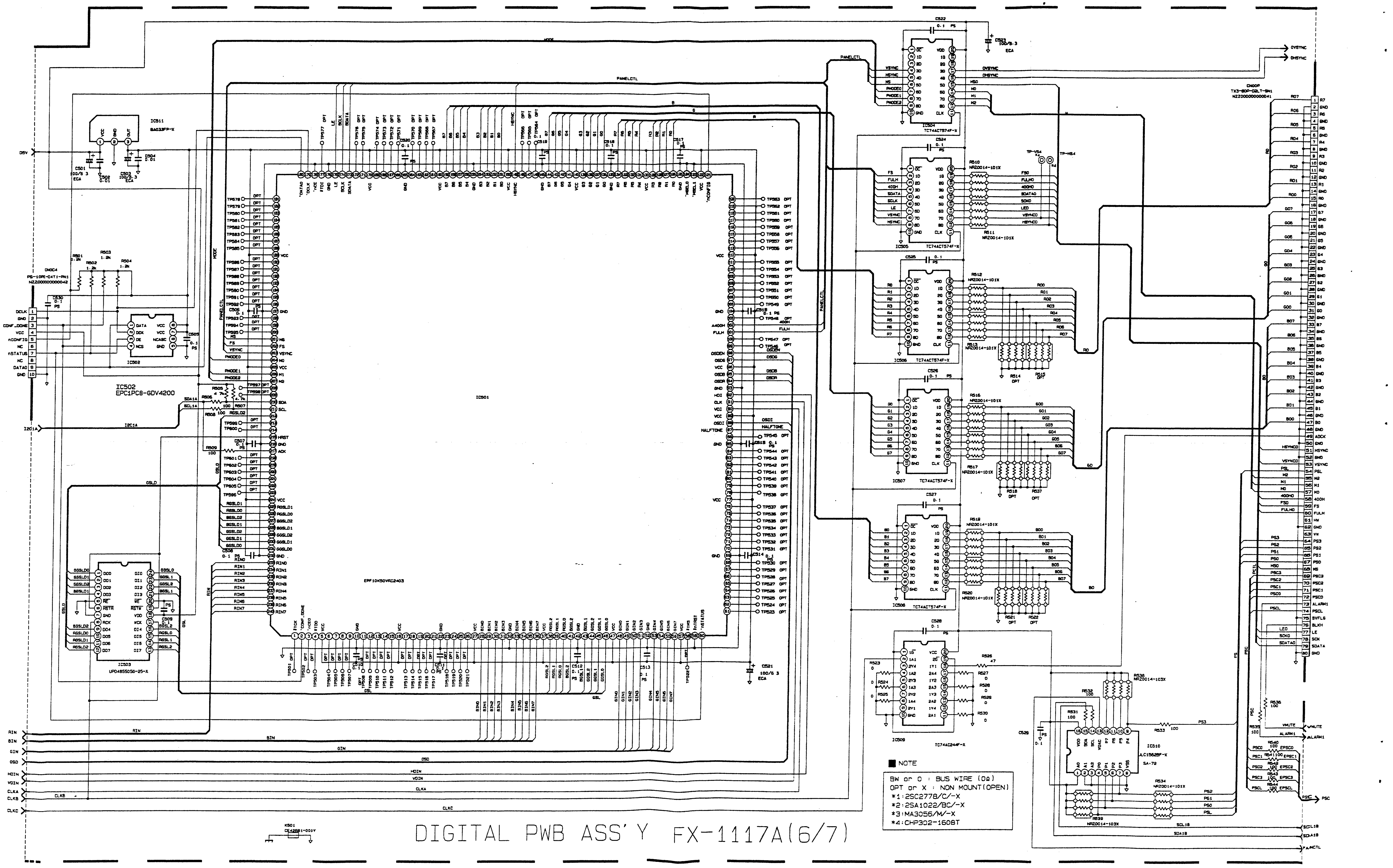
■ NOTE

BW or 0 : BUS WIRE (0Ω)
OPT or X : NON MOUNT(OPEN)
*1:2SC2778/C/-X
*2:2SA1022/BC/-X
*3:MA3056/M/-X
*4:CHP302-1608T

[DIGITAL PWB CIRCUIT DIAGRAM (5/7)]


DIGITAL PWB ASS'Y
FX-1117A(5/7)
■ NOTE
BW or 0 : BUS WIRE (0Ω)
OPT or X : NON MOUNT(OPEN)
*1:2SC2778/C/-X
*2:2SA1022/BC/-X
*3:MA3056/M/-X
*4:CHP302-160BT
IC401 BA033FP-X
IC402 TC74VHC157F-X
IC403 TC74VHC157F-X
IC404 TC74VHC157F-X
IC405 TC74VHC157F-X
IC406 TC74VHC157F-X
IC407 TC74VHC157F-X
IC408 MN7C006T9D
IC409 TC74ACT574F-X
IC410 TC74ACT574F-X
IC411 TC74ACT574F-X
IC412 TC74ACT574F-X
IC413 TA78L05F-W
IC414 ICS1522M-X
IC415 TC7WU04F-X
IC416 TC74VHC157F-X
IC417 TC74VHC157F-X
IC418 TC74AC244F-X
D5V
PCHD/VI
VIR
AR(RY)
VIG
AG(Y)
VIB
AB(BY)
LHD
CLP2
LVD
SCANCLK
SCRESET
I2C1
12V
PLL
PHASE3
HSYNC1
HFBACK
VSYNC1
TP-HS3
TP-VS3
SRIN
SGIN
SBIN
SROUT
SGOUT
SBOUT
NOSYNC
RIN
GIN
BIN
HDIN
VDIN
CLKSH
DSDCLK
CLKA
CLKB
CLKC
DCK
TP-HBK
TP-VBK
PLL3
SYNC_SW
A:VIDEO
B:PC·HDTV
X401 CE42681-001Y
P3GND

[DIGITAL PWB CIRCUIT DIAGRAM (6/7)]

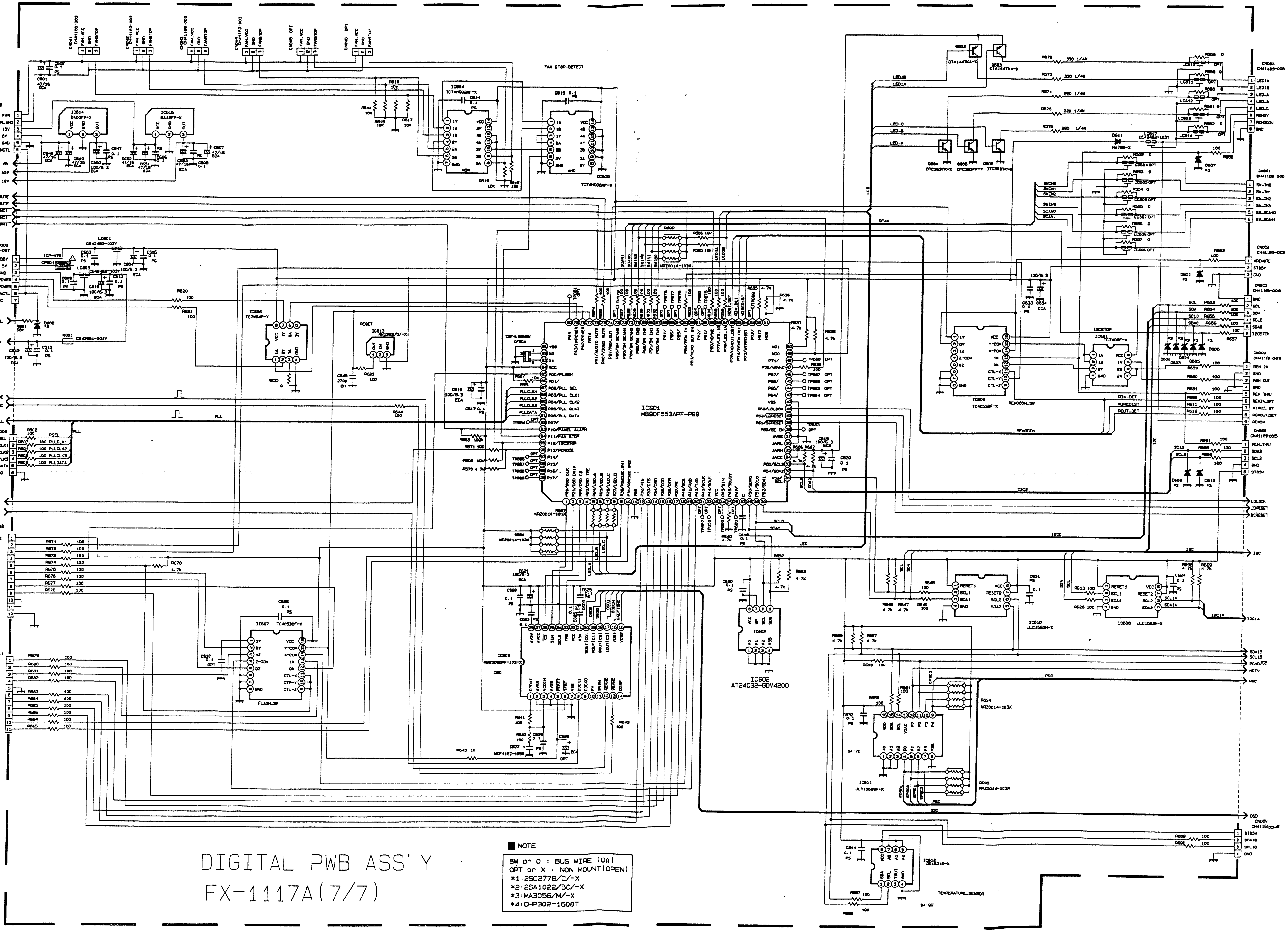

IC511
BA033FP-X
D5V
C501 100/6.3 ECA
C502 0.01
C503 100/6.3 ECA
C504 0.01
CN004
PS-10PE-D4T1-PN1
DCLK
GND
CONF_DONE
VCC
nCONFIG
NC
nSTATUS
NC
DATA0
GND
IC502
EPC1PC8-GDV4200
I2C1A
IC501
EPF10K50VRC240-3
IC503
UPD485505G-25-X
IC504
TC74ACT574F-X
IC505
TC74ACT574F-X
IC506
TC74ACT574F-X
IC507
TC74ACT574F-X
IC508
TC74ACT574F-X
IC509
TC74AC244F-X
IC510
LC1562BF-X
SA-72
CN00P
TX3-80P-D2LT-SH1
C523 100/6.3 ECA
C521 100/6.3 ECA
OVSYNC
OHSYNC
MODE
PANELCTL
RIN
BIN
GIN
OSD
HDIN
VDIN
CLKA
CLKB
CLKC
VMUTE
ALARM1
PSC
SCL1B
SDA1B
PANCTL
K501
CE42681-003Y

■ NOTE

BW or 0 : BUS WIRE (0Ω)
OPT or X : NON MOUNT(OPEN)
*1:2SC2778/C/-X
*2:2SA1022/BC/-X
*3:MA3056/M/-X
*4:CHP302-1608T

DIGITAL PWB ASS'Y FX-1117A(6/7)

[DIGITAL PWB CIRCUIT DIAGRAM (7/7)]

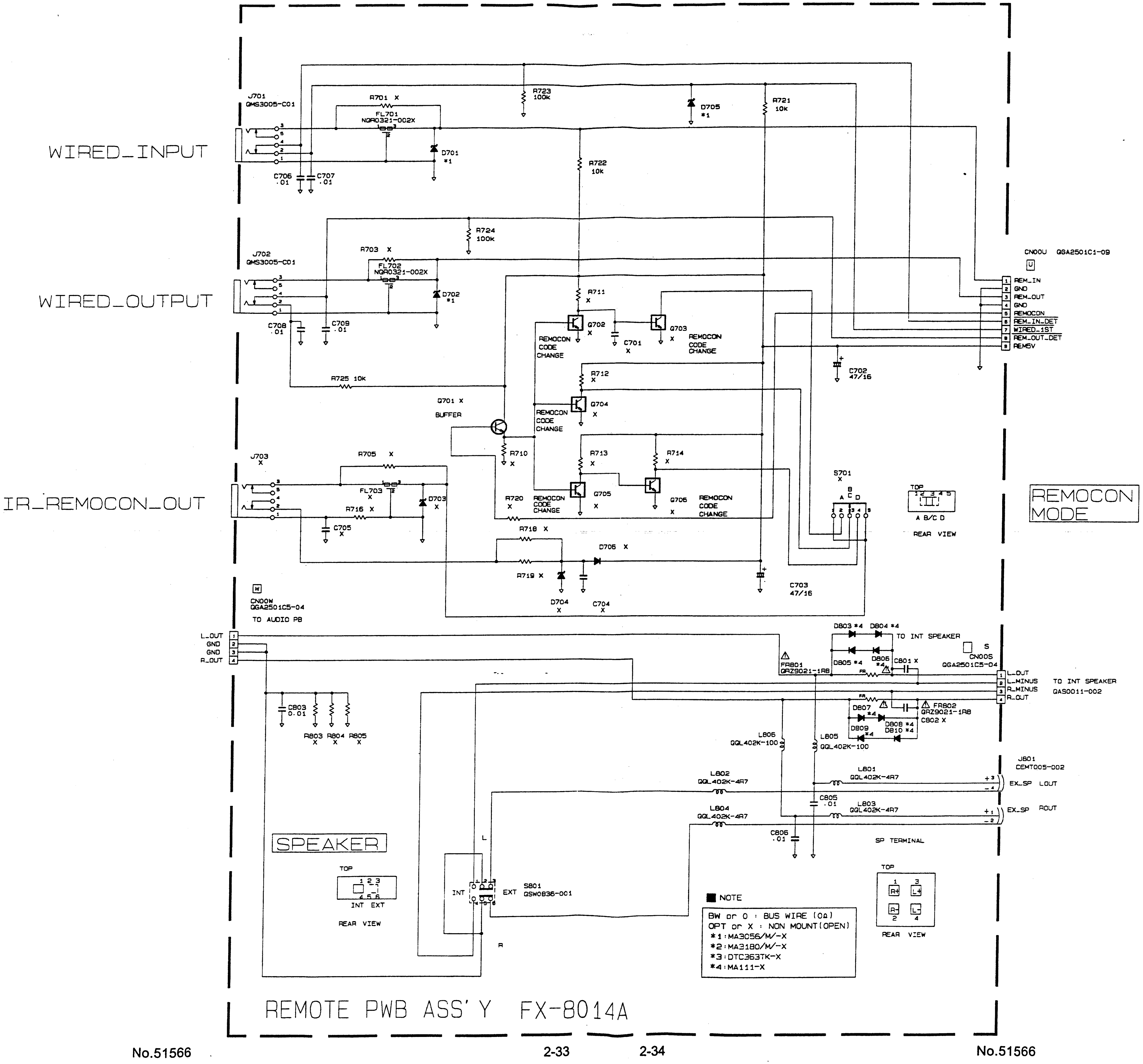

IC601
MB90F553APF-P99
IC602
AT24C32-GDV4200
IC603
IC604
TC74HC02AF-X
IC605
TC74HC08AF-X
IC606
TC7W04F-X
IC607
TC4053BF-X
FLASH_SW
IC609
TC4053BF-X
REMOCON_SW
IC608
JLC1563M-X
IC610
JLC1563M-X
IC611
IC612
TEMPERATURE_SENSOR
IC613
IC614
BA05FP-X
IC615
BA12FP-X
IC621
TC7W08F-X
FAN_STOP_DETECT
NOR
AND
PLL
I2C
I2C1A
I2C2
I2CD
LED
DSD
PSC
SCAN
REMOCON
FAN
FAN_SW0
13V
5V
GND
FANCTL
5V
A5V
12V
VMUTE
AMUTE
HSYNC1
VSYNC1
ALARM1
STBSV
POWER
HVPOWER
NC
POWER UNIT
FANCTL
DSV
OVSYNC
OHSYNC
PLL
PLLSEL
PLLCLK1
PLLCLK2
PLLCLK3
PLLDATA
GND
PCMODE
OSDCLK
TVPP1
TAUX3
TMODE
TAUX
TICS
TRES
TTXD
TRXD
TCK
TVCC
VCC
GND
DCD
RD
TD
DTR
GND
DSR
RTS
CTS
RI
RSSW1
RSSW2
LED1B
LED1A
LED_A
LED_B
LED_C
REMSV
REMOCON
GND
SW_IN0
SW_IN1
SW_IN2
SW_IN3
SW_SCAN0
SW_SCAN1
WREMOTE
STBSV
GND
SCL
SDA
SCL0
SDA0
I2CSTOP
REM IN
GND
REM OUT
GND
REM THRU
REMIN_DET
WIRED_ST
REMOUT_DET
REMSV
REM_THRU
SDA2
SCL2
GND
STBSV
LDLOCK
LDRESET
SCRESET
I2C
I2C1A
SDA1B
SCL1B
PCMD/VI
HDTV
PSC
DSD
STBSV
SDA1B
SCL1B
GND

DIGITAL PWB ASS'Y
FX-1117A(7/7)

■ NOTE

BW or O : BUS WIRE (0Ω)
OPT or X : NON MOUNT(OPEN)
*1:2SC2778/C/-X
*2:2SA1022/BC/-X
*3:MA3056/M/-X
*4:CHP302-1608T

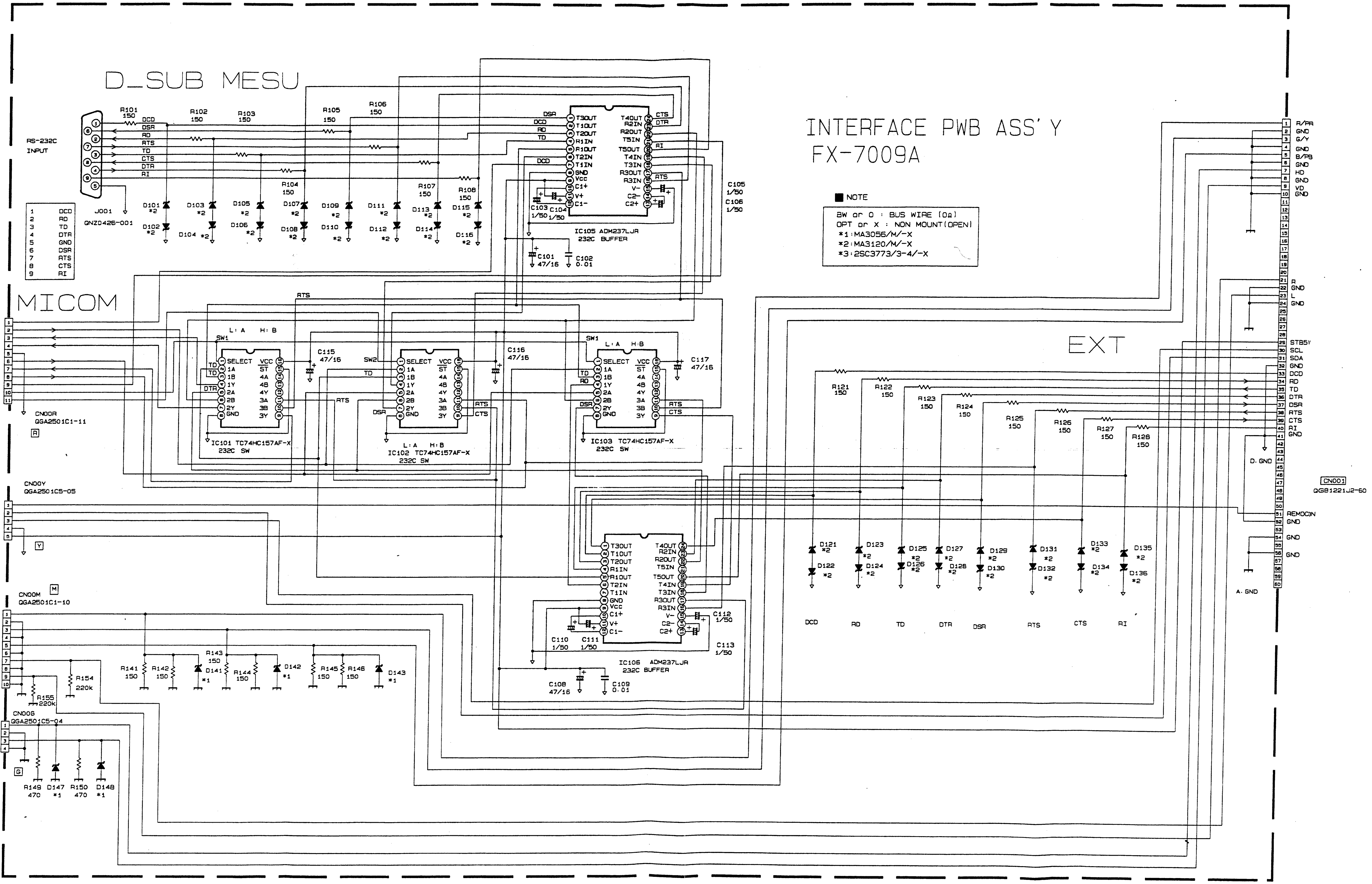
[REMOTE PWB CIRCUIT DIAGRAM]


WIRED_INPUT
J701
QMS3005-C01
R701 X
FL701
NQR0321-002X
D701
*1
C706
.01
C707
.01
R723
100K
D705
*1
R721
10K
R722
10K
WIRED_OUTPUT
J702
QMS3005-C01
R724
100K
R703 X
FL702
NQR0321-002X
D702
*1
C708
.01
C709
.01
R711
X
Q702
X
REMOCON
CODE
CHANGE
C701
X
Q703
X
REMOCON
CODE
CHANGE
C702
47/16
R725 10K
R712
X
Q704
X
REMOCON
CODE
CHANGE
Q701 X
BUFFER
R710
X
IR_REMOCON_OUT
J703
X
R705 X
FL703
X
R716 X
D703
X
C705
X
R720
X
R713
X
Q705
X
REMOCON
CODE
CHANGE
R714
X
Q706
X
REMOCON
CODE
CHANGE
R718 X
R719 X
D706 X
D704
X
C704
X
C703
47/16
S701
X
B
A C D
1 2 3 4 5
TOP
1 2 3 4 5
A B/C D
REAR VIEW
REMOCON
MODE
CN00U QGA2501C1-09
U
1 REM_IN
2 GND
3 REM_OUT
4 GND
5 REMOCON
6 REM_IN_DET
7 WIRED_1ST
8 REM_OUT_DET
9 REM5V
W
CN00W
QGA2501C5-04
TO AUDIO PB
L_OUT 1
GND 2
GND 3
R_OUT 4
C803
0.01
R803 R804 R805
X X X
FR801
QRZ9021-1R8
D803 *4
D804 *4
TO INT SPEAKER
D805 *4
D806
*4
C801 X
S
CN00S
QGA2501C5-04
1 L_OUT
2 L_MINUS
3 R_MINUS
4 R_OUT
TO INT SPEAKER
QAS0011-002
FR
D807
*4
FR802
QRZ9021-1R8
C802 X
D809
*4
D808 *4
D810 *4
L806
QQL402K-100
L805
QQL402K-100
J801
CEMT005-002
L802
QQL402K-4R7
L801
QQL402K-4R7
+3
-4
EX_SP LOUT
C805
.01
L803
QQL402K-4R7
L804
QQL402K-4R7
+1
-2
EX_SP ROUT
C806
.01
SP TERMINAL
SPEAKER
TOP
1 2 3
4 5 6
INT EXT
REAR VIEW
L
INT
S801
QSW0836-001
EXT
R
TOP
1 3
R+ L+
R- L-
2 4
REAR VIEW
REMOTE PWB ASS'Y FX-8014A

■ NOTE

BW or 0 : BUS WIRE (0Ω)
OPT or X : NON MOUNT(OPEN)
*1:MA3056/M/-X
*2:MA3180/M/-X
*3:DTC363TK-X
*4:MA111-X

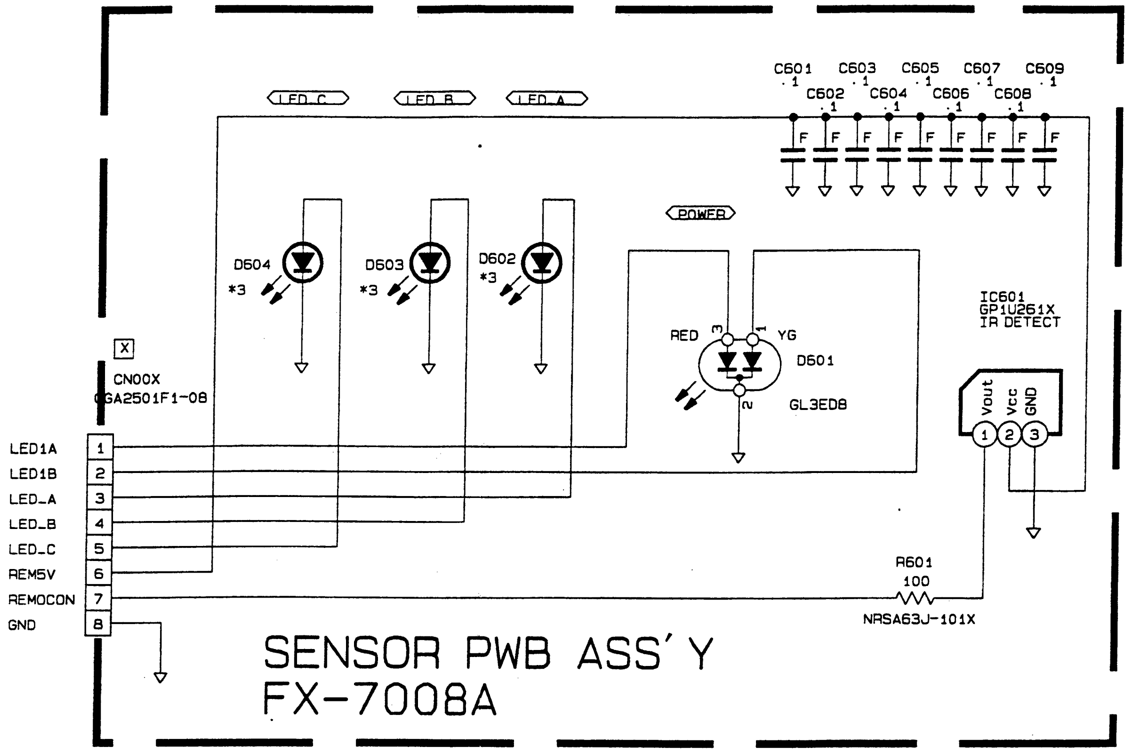
[INTERFACE PWB CIRCUIT DIAGRAM]


D_SUB MESU
INTERFACE PWB ASS' Y
FX-7009A
NOTE
BW or 0 : BUS WIRE (0Ω)
OPT or X : NON MOUNT(OPEN)
*1:MA3056/M/-X
*2:MA3120/M/-X
*3:2SC3773/3-4/-X
RS-232C INPUT
J001
QNZ0426-001
1 DCD
2 RD
3 TD
4 DTR
5 GND
6 DSR
7 RTS
8 CTS
9 RI
R101 150
R102 150
R103 150
R104 150
R105 150
R106 150
R107 150
R108 150
D101 *2
D102 *2
D103 *2
D104 *2
D105 *2
D106 *2
D107 *2
D108 *2
D109 *2
D110 *2
D111 *2
D112 *2
D113 *2
D114 *2
D115 *2
D116 *2
IC105 ADM237LJR 232C BUFFER
T3OUT
T1OUT
T2OUT
R1IN
R1OUT
T2IN
T1IN
GND
Vcc
C1+
V+
C1-
T4OUT
R2IN
R2OUT
T5IN
T5OUT
T4IN
T3IN
R3OUT
R3IN
V-
C2-
C2+
C101 47/16
C102 0.01
C103 1/50
C104 1/50
C105 1/50
C106 1/50
MICOM
DCD
RD
TD
DTR
GND
DSR
RTS
CTS
RI
RSSW1
RSSW2
CN00R
QGA2501C1-11
R
SW1
SW2
L: A H: B
SELECT
1A
1B
1Y
2A
2B
2Y
GND
VCC
ST
4A
4B
4Y
3A
3B
3Y
C115 47/16
C116 47/16
C117 47/16
IC101 TC74HC157AF-X 232C SW
IC102 TC74HC157AF-X 232C SW
IC103 TC74HC157AF-X 232C SW
CN00Y
QGA2501C5-05
REMOCON
SDA2
SCL2
GND
STB5V
Y
CN00M
QGA2501C1-10
M
EX_R
GND
EX_G
GND
EX_B
GND
EX_AL
GND
EX_AR
GND
R141 150
R142 150
R143 150
R144 150
R145 150
R146 150
D141 *1
D142 *1
D143 *1
R154 220k
R155 220k
CN00G
QGA2501C5-04
EX_HS
GND
EX_VS
GND
G
R149 470
D147 *1
R150 470
D148 *1
IC106 ADM237LJR 232C BUFFER
C108 47/16
C109 0.01
C110 1/50
C111 1/50
C112 1/50
C113 1/50
EXT
R121 150
R122 150
R123 150
R124 150
R125 150
R126 150
R127 150
R128 150
D121 *2
D122 *2
D123 *2
D124 *2
D125 *2
D126 *2
D127 *2
D128 *2
D129 *2
D130 *2
D131 *2
D132 *2
D133 *2
D134 *2
D135 *2
D136 *2
DCD
RD
TD
DTR
DSR
RTS
CTS
RI
1 R/PR
2 GND
3 G/Y
4 GND
5 B/PB
6 GND
7 HD
8 GND
9 VD
10 GND
21 R
22 GND
23 L
24 GND
29 STB5V
30 SCL
31 SDA
32 GND
33 DCD
34 RD
35 TD
36 DTR
37 DSR
38 RTS
39 CTS
40 RI
41 GND
51 REMOCON
52 GND
54 GND
56 GND
D. GND
A. GND
CN001
QGB1221J2-60

[SENSOR PWB CIRCUIT DIAGRAM]

■ NOTE

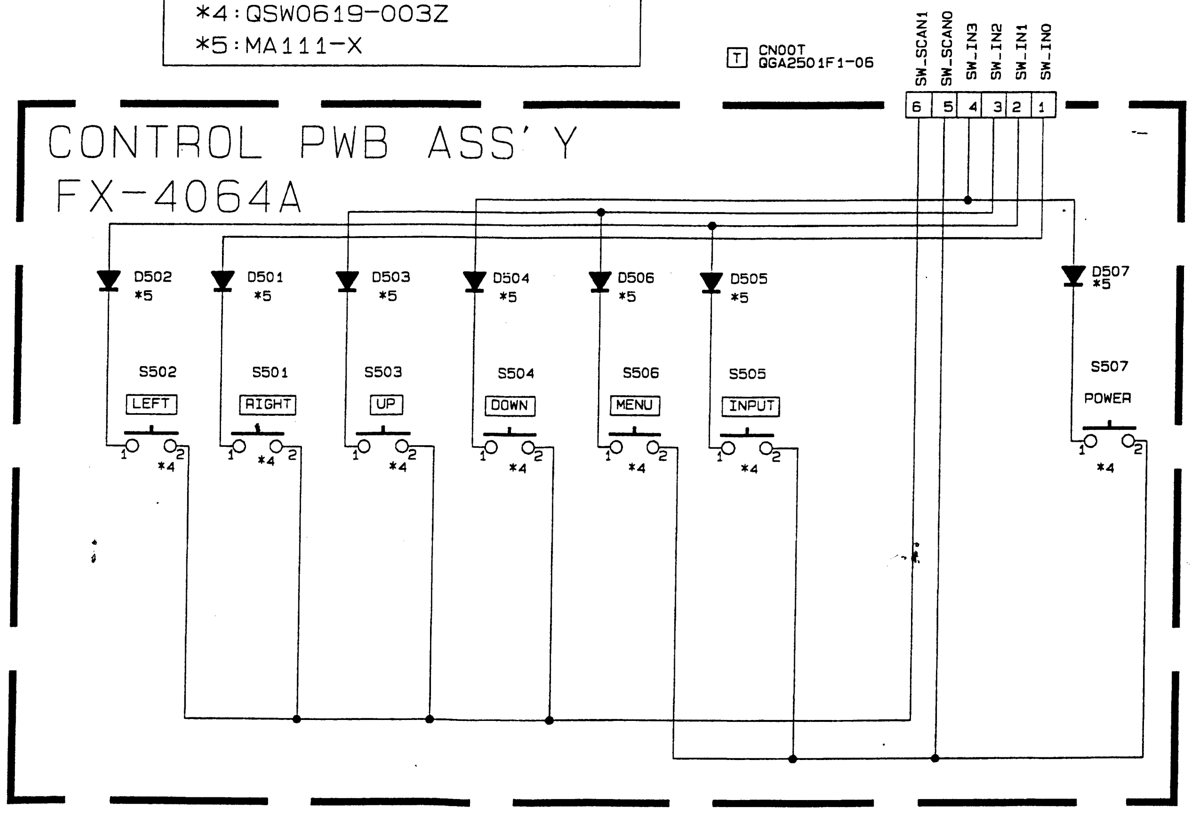
BW or 0 : BUS WIRE (0Ω)
OPT or X : NON MOUNT(OPEN)
*1:SML-210VT-X


LED_C
LED_B
LED_A
C601 .1
C602 .1
C603 .1
C604 .1
C605 .1
C606 .1
C607 .1
C608 .1
C609 .1
F
POWER
D604 *3
D603 *3
D602 *3
RED
YG
D601
GL3ED8
IC601
GP1U261X
IR DETECT
Vout
Vcc
GND
X
CN00X
QGA2501F1-08
LED1A 1
LED1B 2
LED_A 3
LED_B 4
LED_C 5
REMSV 6
REMOCON 7
GND 8
R601
100
NRSA63J-101X
SENSOR PWB ASS'Y
FX-7008A

[CONTROL PWB CIRCUIT DIAGRAM]

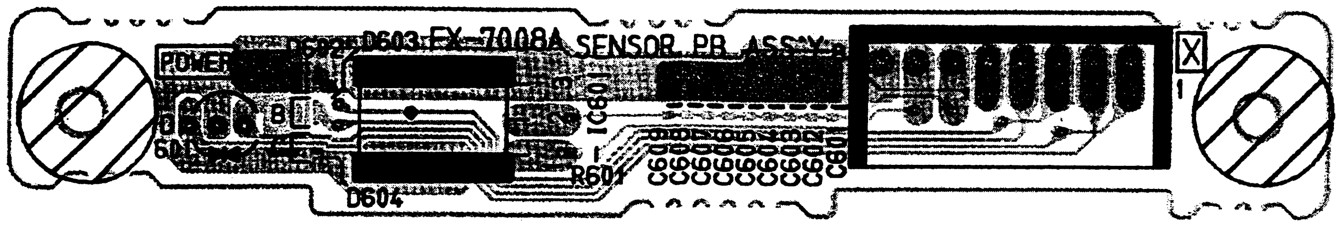
■ NOTE

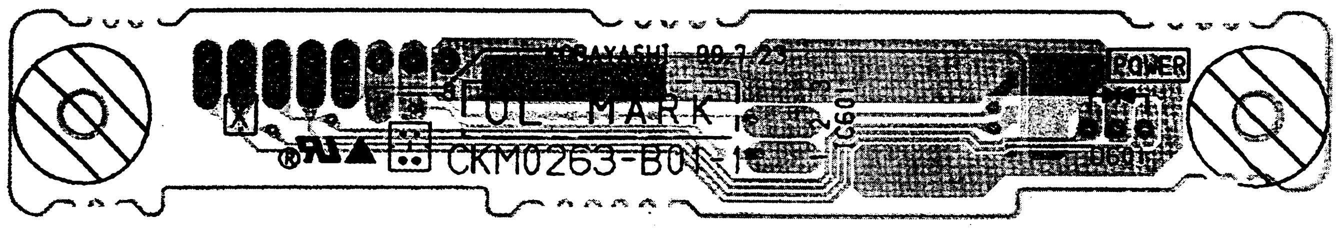
BW or 0 : BUS WIRE (0Ω)
OPT or X : NON MOUNT(OPEN)
*4:QSW0619-003Z
*5:MA111-X


T CN00T
QGA2501F1-06
SW_SCAN1
SW_SCAN0
SW_IN3
SW_IN2
SW_IN1
SW_IN0
6 5 4 3 2 1
CONTROL PWB ASS'Y
FX-4064A
D502 *5
D501 *5
D503 *5
D504 *5
D506 *5
D505 *5
D507 *5
S502 LEFT
S501 RIGHT
S503 UP
S504 DOWN
S506 MENU
S505 INPUT
S507 POWER
*4

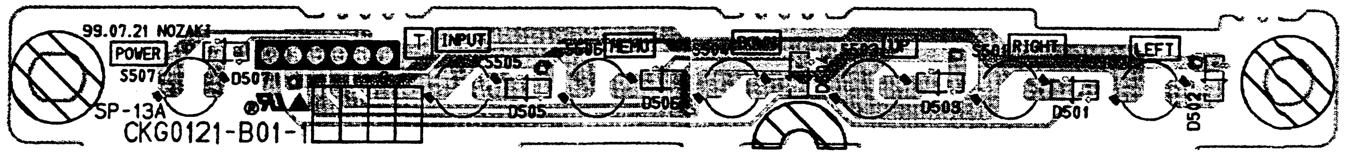
PATTERN DIAGRAMS

[SENSOR PWB PATTERN]

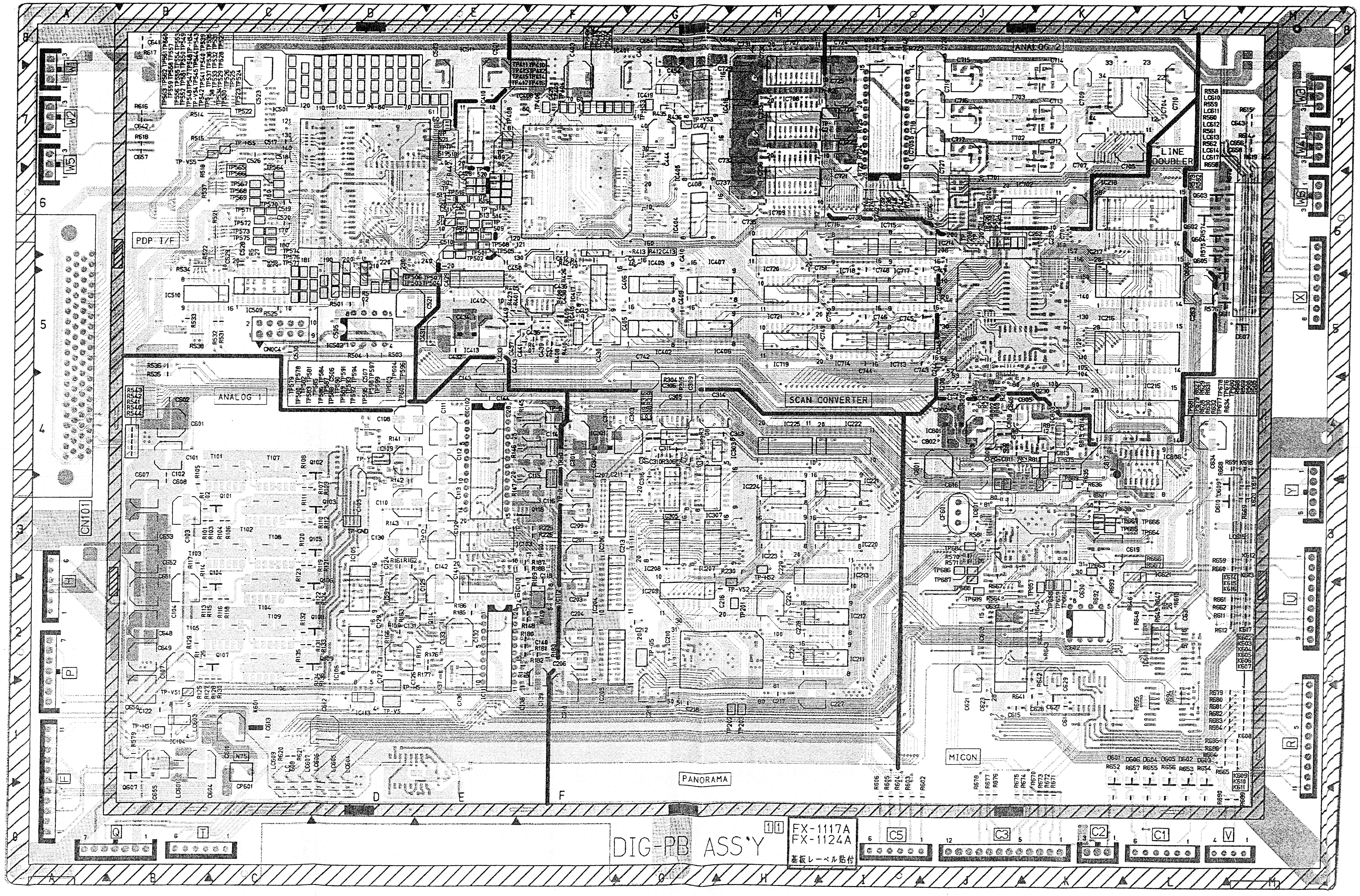

POWER
D603 FX-7008A SENSOR PB ASS'Y
D604
R601
IC601
C609
C608
C607
C606
C605
C604
C603
C602
C601
X


UL MARK
CKM0263-B01-1
POWER
IC601
X

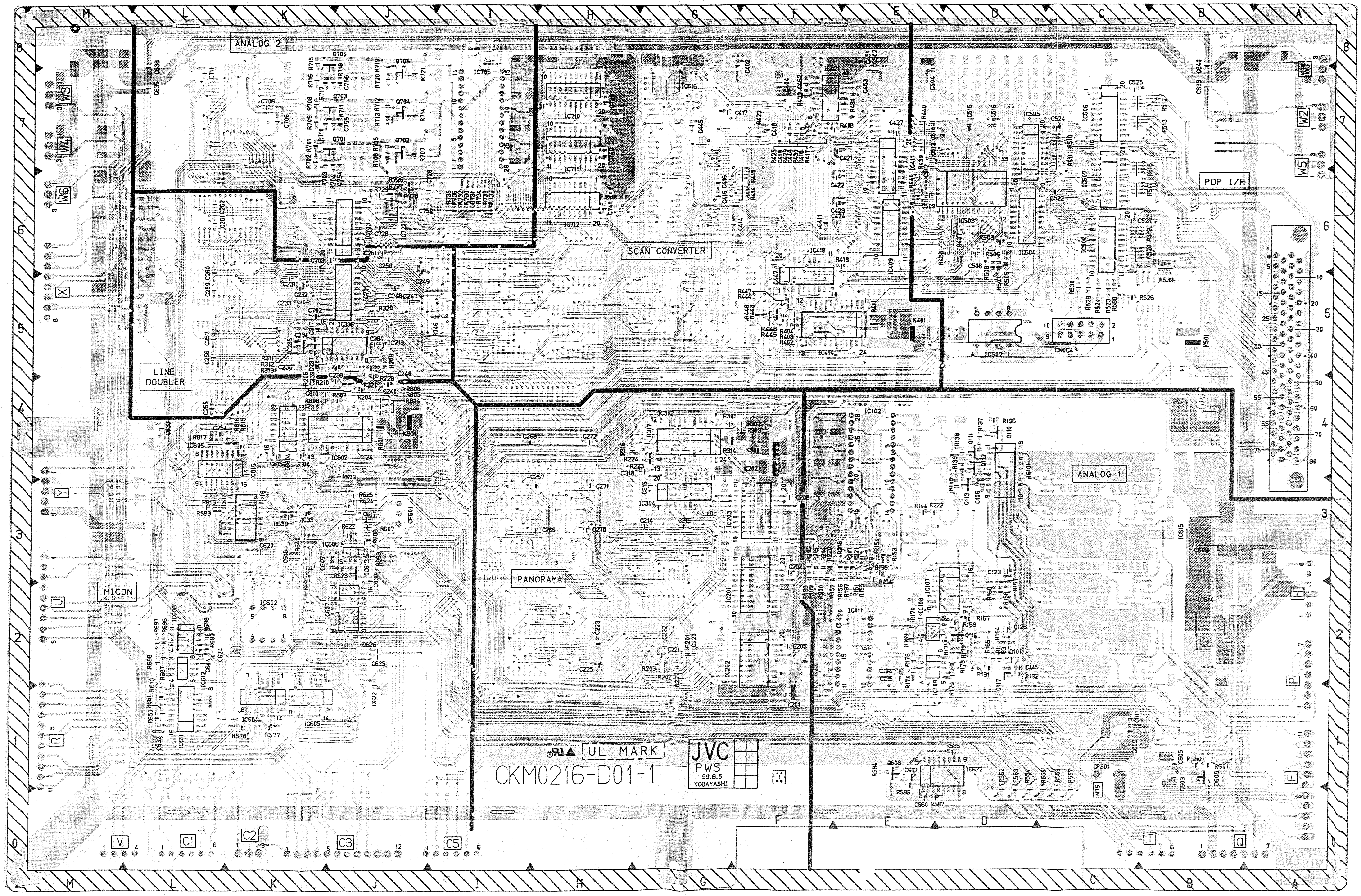
[CONTROL PWB PATTERN]


99.07.21 NOZAKI
POWER
S507
D507
SP-13A
CKG0121-B01-1
T
INPUT
S505
D505
MENU
D506
UP
D503
RIGHT
D501
LEFT
D502

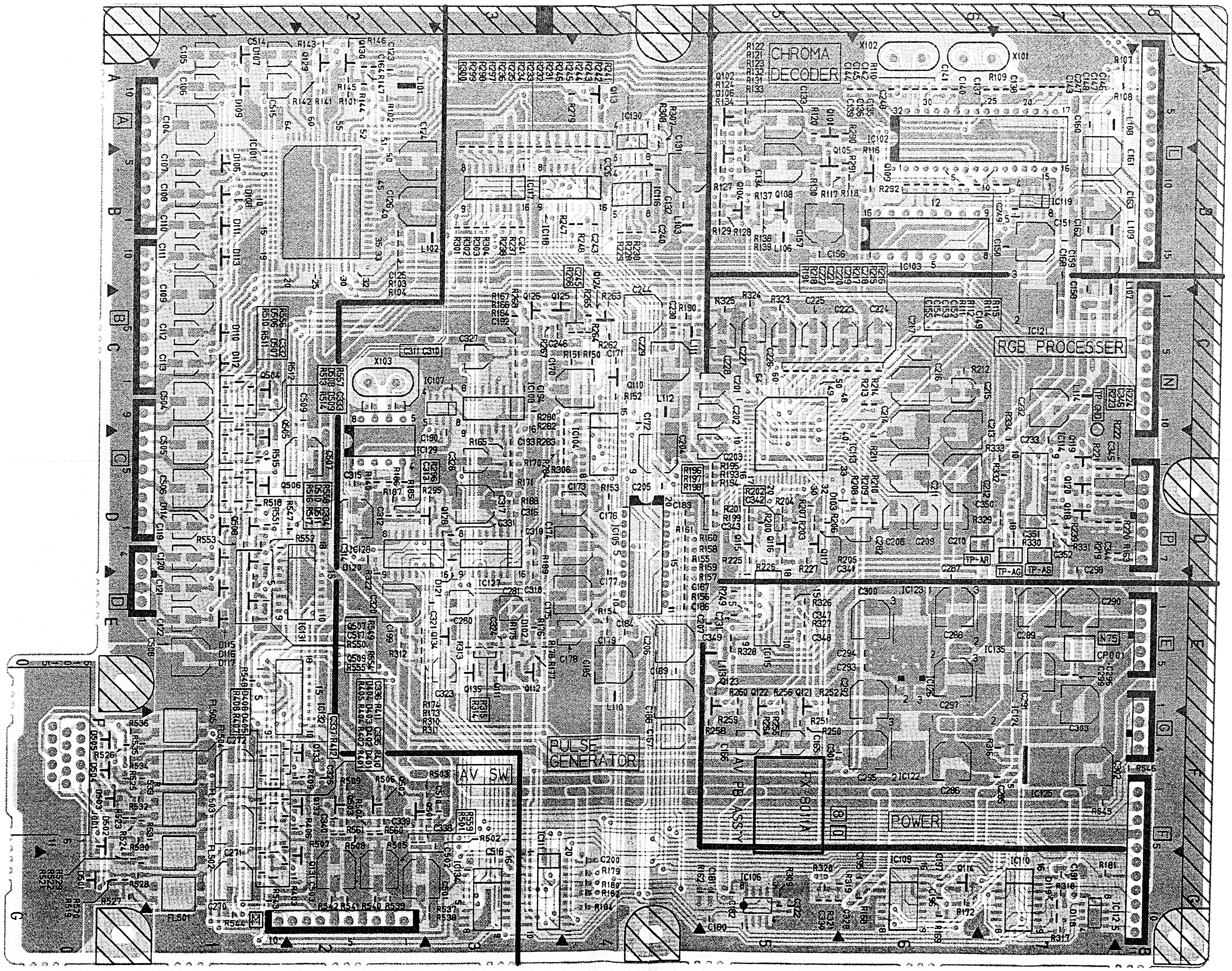
[DIGITAL PWB PATTERN]   (side A)


PDP I/F
ANALOG 1
ANALOG 2
LINE DOUBLER
SCAN CONVERTER
MICON
PANORAMA
CN101
DIG-PB ASS'Y
FX-1117A
FX-1124A
基板レーベル貼付
W1
W2
W3
W4
W5
W6
X
Y
U
R
H
P
E
Q
T
C5
C3
C2
C1
V

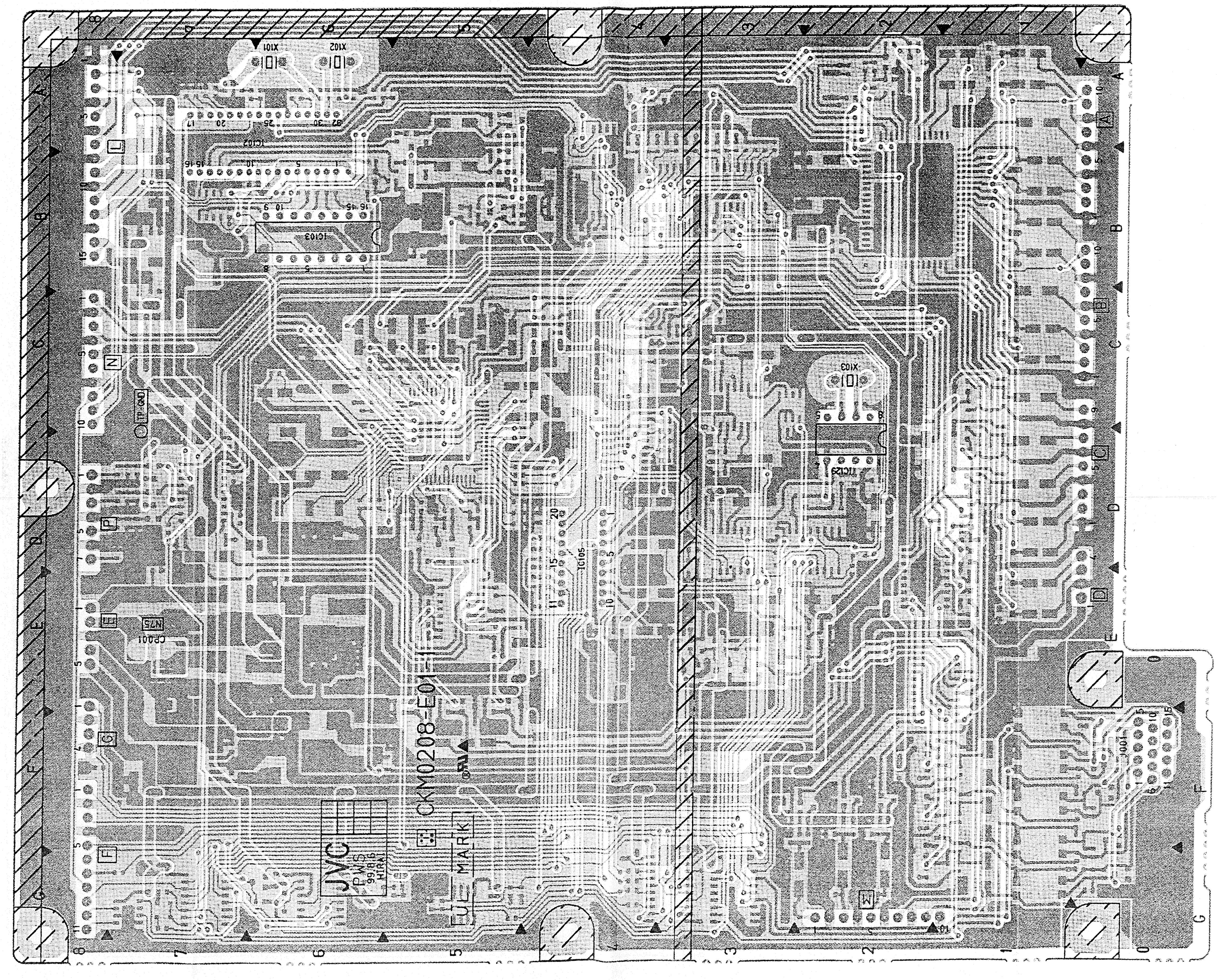
***[DIGITAL PWB PATTERN]** (side B)*


ANALOG 2
LINE DOUBLER
SCAN CONVERTER
PDP I/F
ANALOG 1
PANORAMA
MICON
UL MARK
CKM0216-D01-1
JVC
PWS
99.6.5
KOBAYASHI
W1
W2
W3
W4
W5
W6
X
Y
U
R
V
C1
C2
C3
C5
T
Q
H
P
F
M
L
K
J
I
H
G
F
E
D
C
B
A
0
1
2
3
4
5
6
7
8

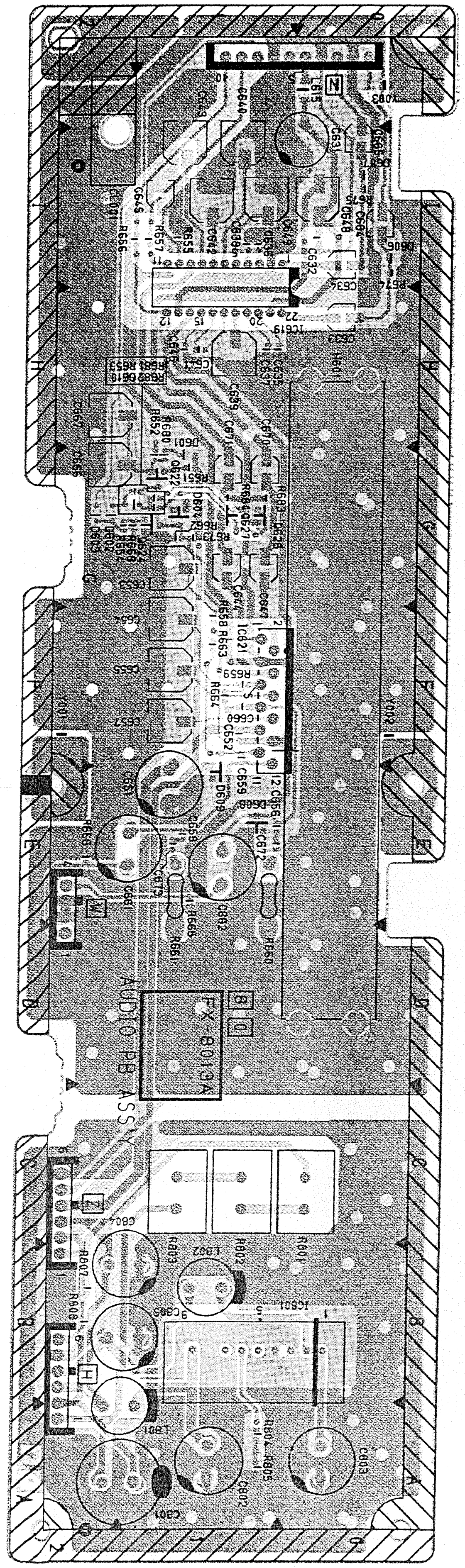
[AV PWB PATTERN]   (side A)


CHROMA DECODER
RGB PROCESSER
PULSE GENERATOR
AV SW
POWER
AV PB ASSY
RX-8011A
X101
X102
X103
IC102
IC103
IC121
IC123
IC135
TP-GND
TP-AR
TP-AG
TP-AB

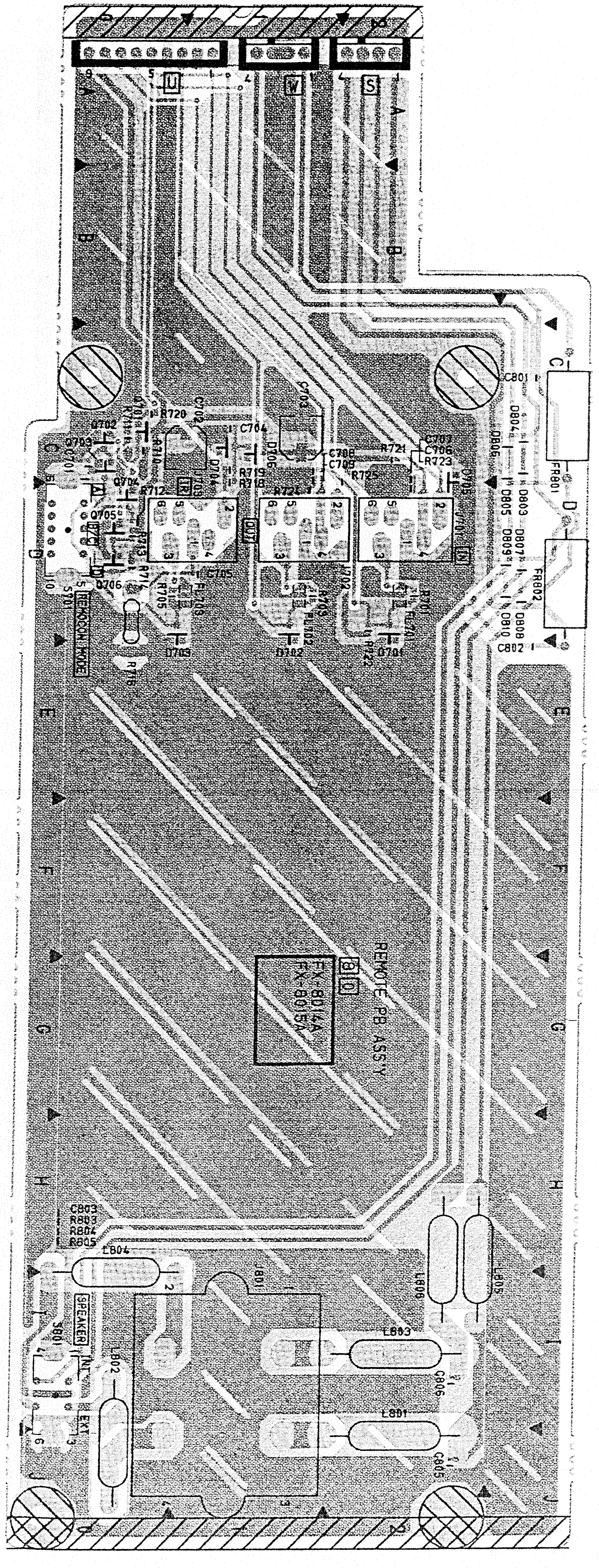
[AV PWB PATTERN] (side B)


X101
X102
IC102
IC103
X103
IC105
CP001
N75
TP-GND
J001
CKM0208-E01
JVC
PWB
UL MARK
A
B
C
D
E
F
G
L
N
P
M
1
2
3
4
5
6
7
8

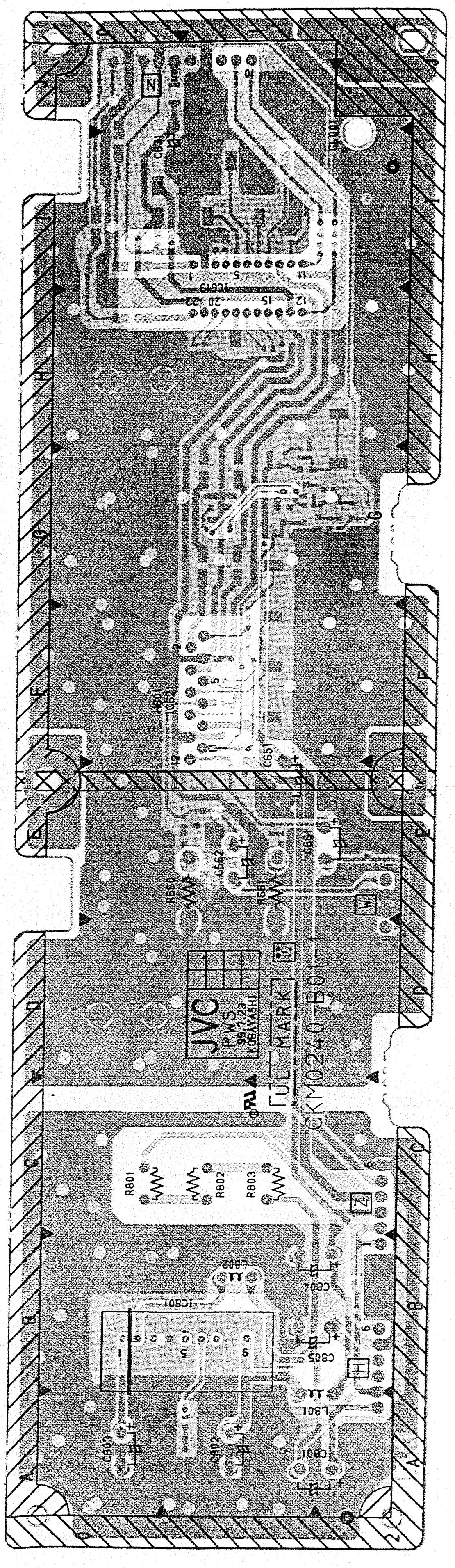
[AUDIO PWB PATTERN] (side A)


AUDIO PB ASSY
FX-8013A
IC619
IC801

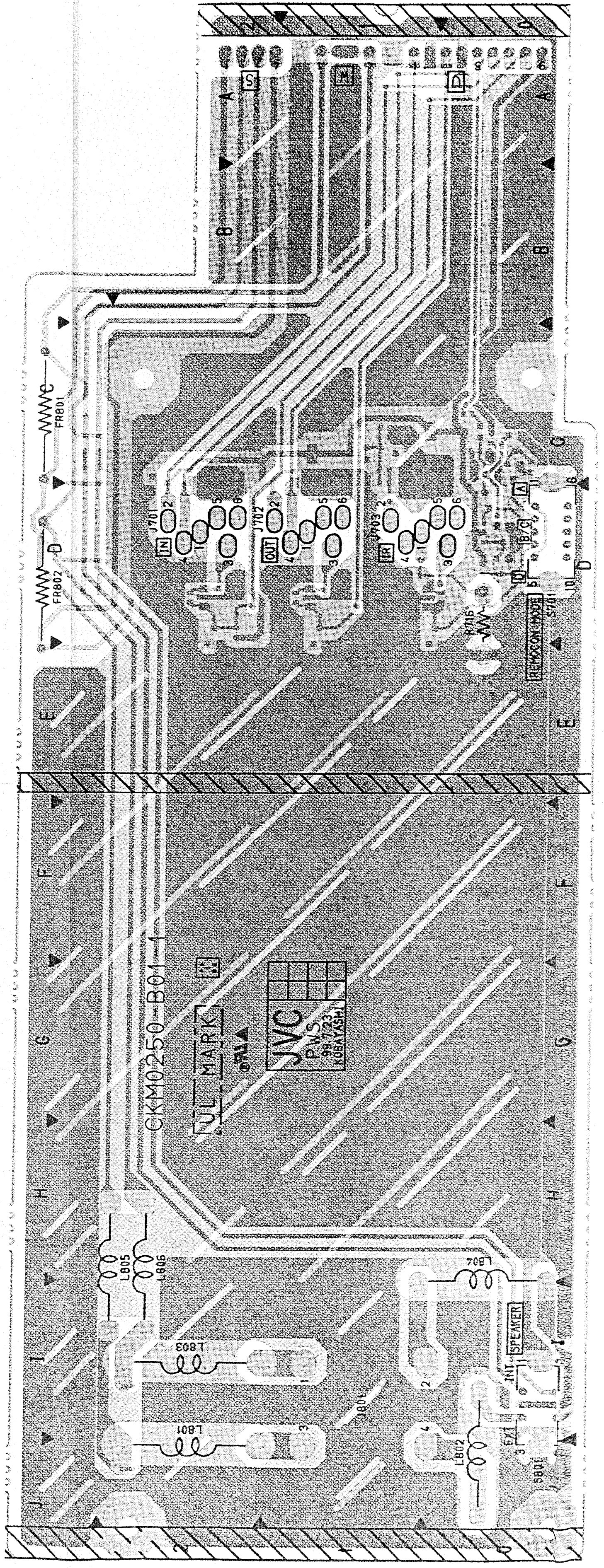
[REMOTE PWB PATTERN] (side A)


REMOTE PB ASSY
FX-8014A
FX-8015A
SPEAKER
EXT

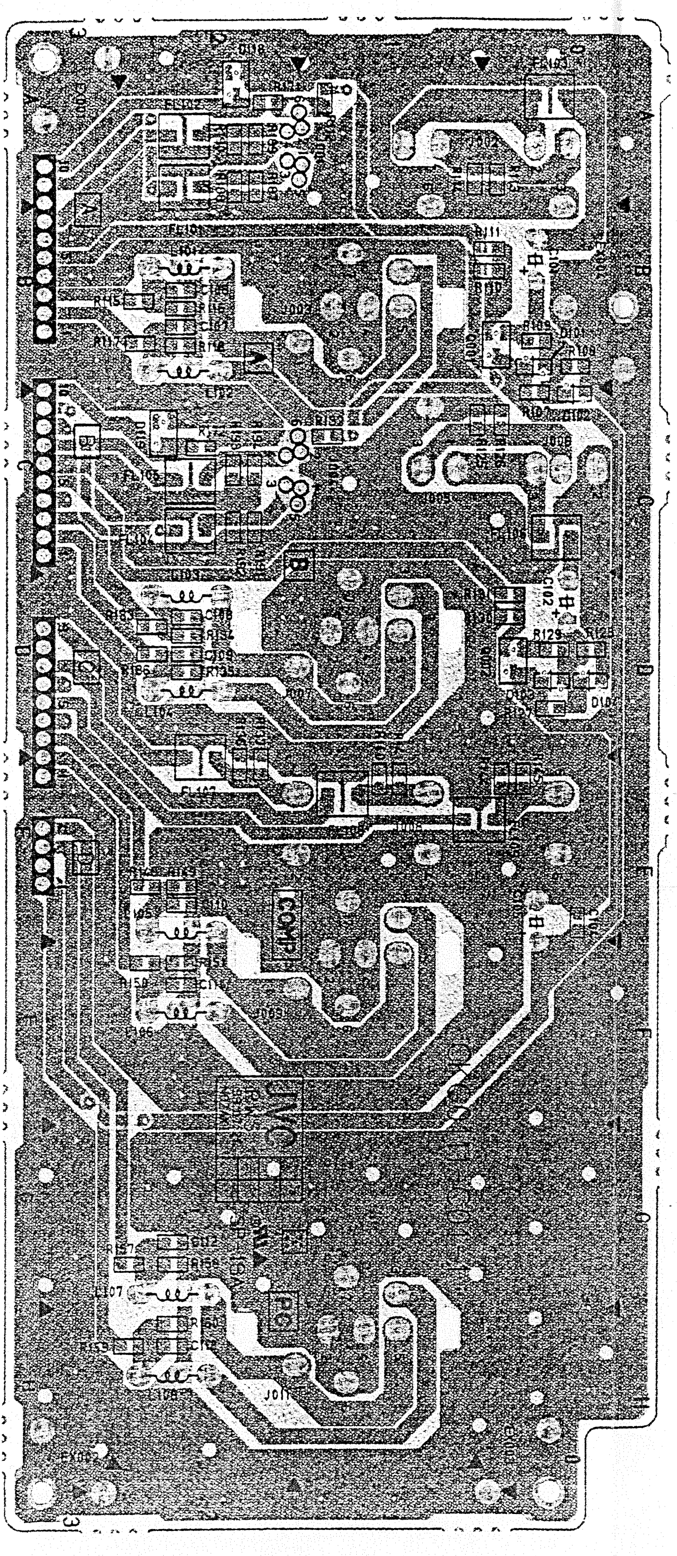
[AUDIO PWB PATTERN] (side B)


JVC
UL MARK
CKM0240-B01-1
IC801

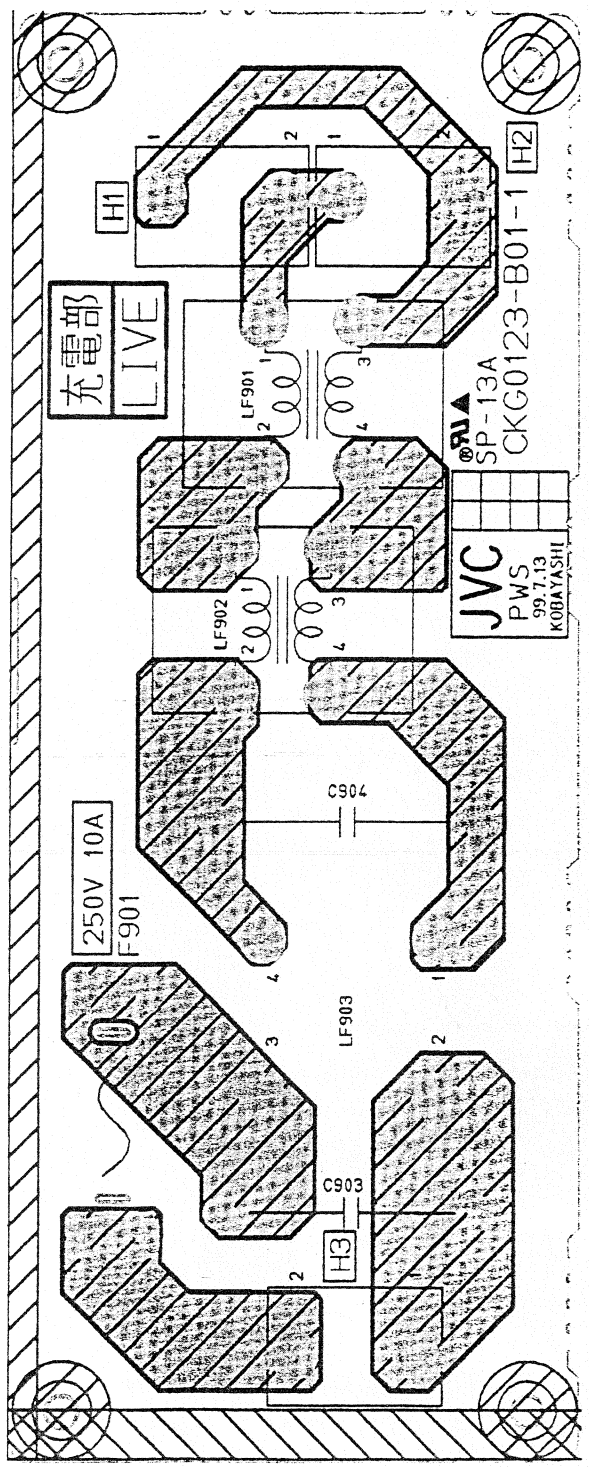
[REMOTE PWB PATTERN] (side B)


JVC
UL MARK
CKM0250-B01-1
SPEAKER
EXT

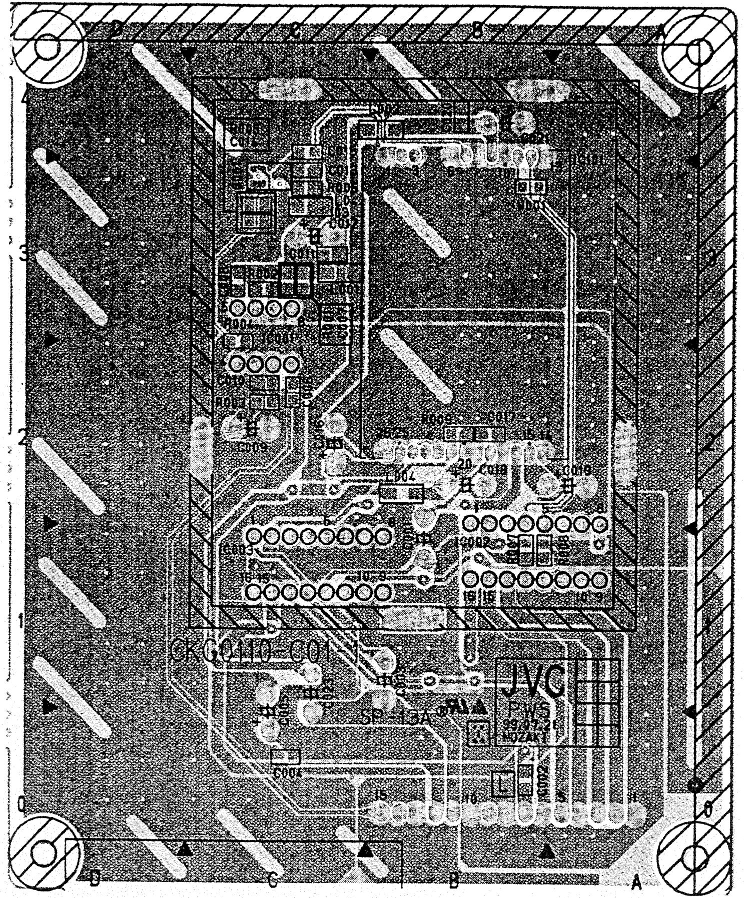
[TERMINAL PWB PATTERN]


JVC
COMP
J01

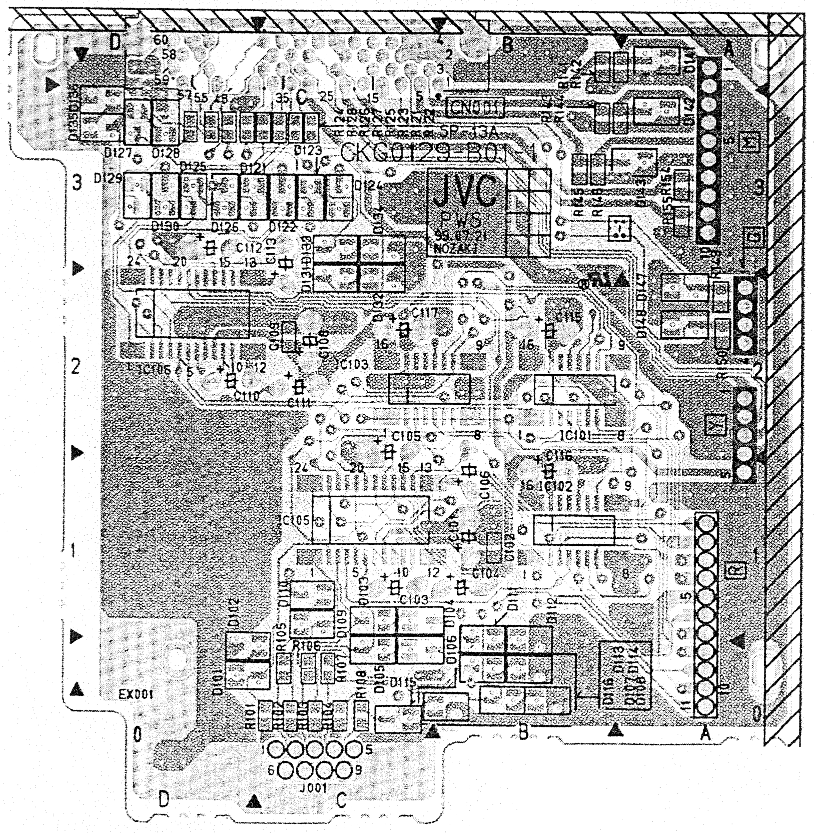
[FILTER PWB PATTERN]


H1
H2
H3
充電部
LIVE
LF901
LF902
LF903
C904
C903
250V 10A
F901
SP-13A
CKG0123-B01-1
JVC
PWS
99.7.13
KOBAYASHI

[COMB PWB PATTERN]


A
B
C
D
CKG0110-C01
SP-13A
JVC
PWS

[INTERFACE PWB PATTERN]


A
B
C
D
CN001
SP-13A
CKG0129-B01
JVC
PWS
99.7.21
NOZAKI
IC101
IC102
IC103
IC105
EX001
J001

PARTS LIST

CAUTION

- The parts identified by the ⚠ symbol are important for the safety . Whenever replacing these parts, be sure to use specified ones to secure the safety .
- The parts not indicated in this Parts List and those which are filled with lines --- in the Parts No. columns will not be supplied .
- P. W. Board Ass'y will not be supplied, but those which are filled with the Parts No. in the Parts No. columns will be supplied .

ABBREVIATIONS OF RESISTORS, CAPACITORS AND TOLERANCES

RESISTORS		CAPACITORS	
C R	Carbon Resistor	C CAP.	Ceramic Capacitor
F R	Fusible Resistor	E CAP.	Electrolytic Capacitor
P R	Plate Resistor	M CAP.	Mylar Capacitor
V R	Variable Resistor	HV CAP.	High Voltage Capacitor
HV R	High Voltage Resistor	MF CAP.	Metalized Film Capacitor
MF R	Metal Film Resistor	MM CAP.	Metalized Mylar Capacitor
MG R	Metal Glazed Resistor	MP CAP.	Metalized Polystyrol Capacitor
MP R	Metal Plate Resistor	PP CAP.	Polypropylene Capacitor
OM R	Metal Oxide Film Resistor	PS CAP.	Polystyrol Capacitor
CMF R	Coating Metal Film Resistor	TF CAP.	Thin Film Capacitor
UNF R	Non-Flammable Resistor	MPP CAP.	Metalized Polypropylene Capacitor
CH V R	Chip Variable Resistor	TAN. CAP.	Tantalum Capacitor
CH MG R	Chip Metal Glazed Resistor	CH C CAP.	Chip Ceramic Capacitor
COMP. R	Composition Resistor	BP E CAP.	Bi-Polar Electrolytic Capacitor
LPTC R	Linear Positive Temperature Coefficient Resistor	CH AL E CAP.	Chip Aluminum Electrolytic Capacitor
		CH AL BP CAP.	Chip Aluminum Bi-Polar Capacitor
		CH TAN. E CAP.	Chip Tantalum Electrolytic Capacitor
		CH AL BP E CAP.	Chip Tantalum Bi-Polar Electrolytic Capacitor

TOLERANCES									
F	G	J	K	M	N	R	H	Z	P
±1%	±2%	±5%	±10%	±20%	±30%	+30% -10%	+50% -10%	+80% -20%	+100% 0%

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USING P.W. BOARD & REMOTE CONTROL UNIT

Model / P.W.B ASS'Y	GD-V4200PZW GD-V4200PZW-G
DIGITAL P.W.B	FX-1117A
CONTROL P.W.B	FX-4064A
COMB P.W.B	FX-5020A
TERMINAL P.W.B	FX-6065A
SENSOR P.W.B	FX-7008A
INTERFACE P.W.B	FX-7009A
AV P.W.B	FX-8011A
AUDIO P.W.B	FX-8013A
REMOTE P.W.B	FX-8014A
FILTER P.W.B	FX-9063A
REMOTE CONTROL UNIT	RM-C575-1

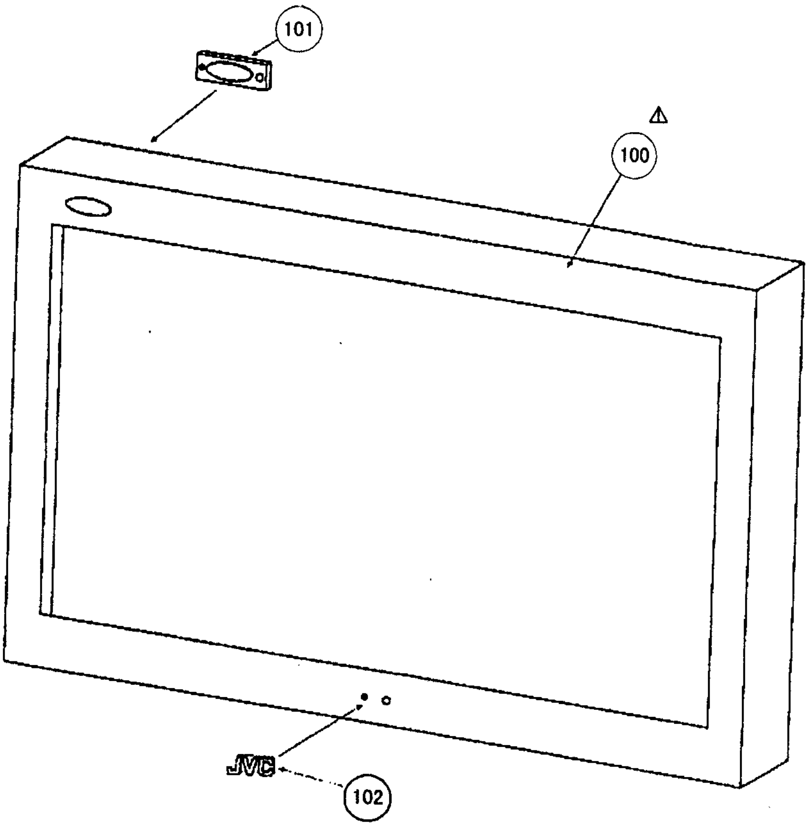
EXPLODED VIEW PARTS LIST

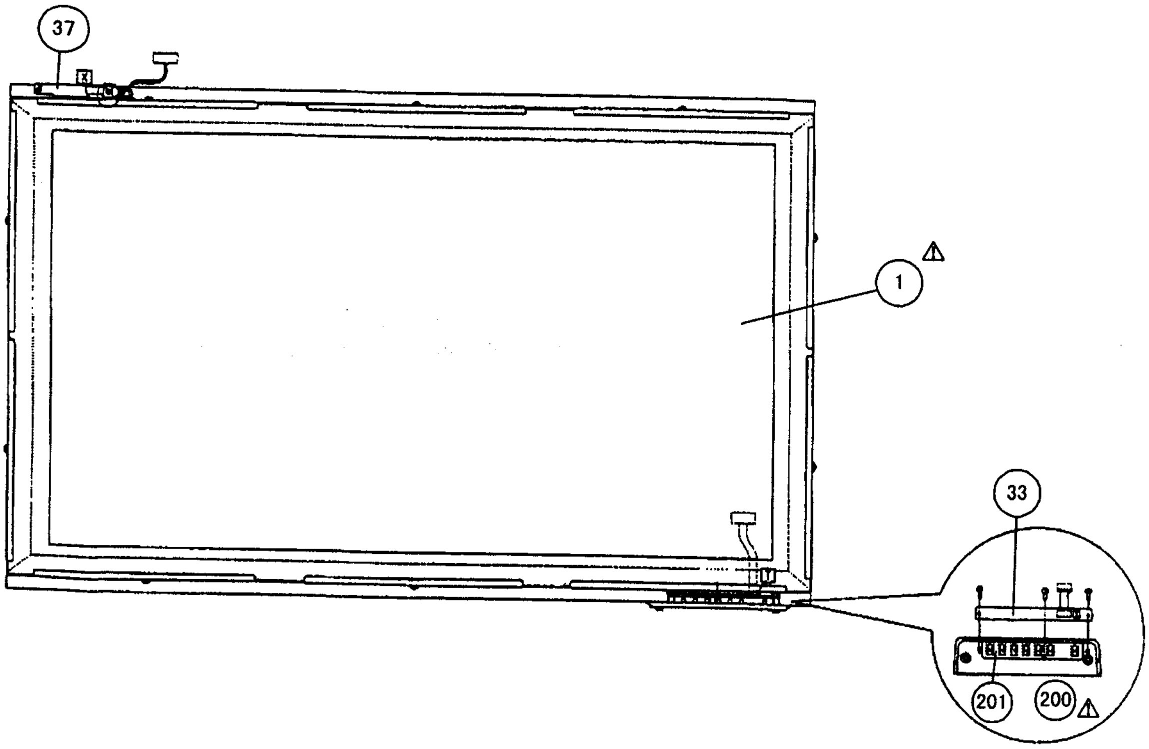
⚠	Ref.No.	Part No.	Part Name	Description	Local
⚠	1	LC30941-001A	FRONT FILTER		
⚠	2	QLE0004-001	PDP PANEL		
	3	QYSPSPD5010Z	SCREW	×4	
	4	LC10541-001B	REAR COVER(L)		
	5	QAR0097-001	FAN MOTOR	×4	
	6	LC40587-001A	SCREW	×8	
	7	QAS0011-002	SPEAKER	×2	
	8	QYSPSP3008Z	SCREW	×4	
⚠	9	QNC0078-001	AC INLET(NOISE)		
⚠	10	QSW0699-001	SEESAW SWITCH		
	11	LC20474-001A	TERMINAL PANEL		
	12	LC10675-001A	REAR COVER		
	13	QYSPSPD3008M	SCREW	×18	
⚠	14	LC20453-001A	ROLL R LABEL	GD-V4200PZW	
⚠	14	LC20453-002A	ROLL R LABEL	GD-V4200PZW-G	
⚠	15	LC20417-001B	INSULATOR(A)		
⚠	16	LC40528-001A	INSULATOR(A)		
	17	QQR0945-001	FERRITE CORE		
⚠	18	QQR0491-001	FILTER	×7	
⚠	19	LC30959-001B	SPACER(A)		
⚠	20	LC30960-001B	SPACER(B)		
⚠	21	QAL0206-001	POWER UNIT ASSY		
⚠	22	LC10538-001C	BACK FLAME	×2	
	23	LC31038-001A	FCC LABEL	GD-V4200PZW	
	23	LC31038-002A	FCC LABEL	GD-V4200PZW-G	
	24	QYSPSPD3008M	SCREW	×6	
	25	LC20365-001C	INLET PANEL		
	26	QYSSSP3010M	SCREW	×2	
	27	QNB0036-001	RETAINER	×2	
	28	QYSPSPD3008M	SCREW	×3	
	29	QYSBSF3012M	TAPPING SCREW	×2	
	30	------------	INTERFACE PWB AS	FX-7009A	
	31	------------	AV PWB ASSY	FX-8011A	
	32	------------	AUDIO PWB ASSY	FX-8013A	
	33	------------	CONTROL PWB ASSY	FX-4064A	
	34	------------	COMB PWB ASSY	FX-5020A	
	35	------------	TERMINAL PWB ASS	FX-6065A	
	36	------------	REMOTE PWB ASSY	FX-8014A	
	37	------------	SENSOR PWB ASSY	FX-7008A	
	38	------------	FILTER PWB ASSY	FX-9063A	
	39	------------	DIGITAL PWB ASSY	FX-1117A	
	40	QYSPSPD3008M	SCREW	×3	
	41	QYSBSF3012M	TAPPING SCREW	×15	
	42	QYSPSPD3008Z	SCREW	×16	
⚠	100	LC10528-001C	F.PANEL ASSY	Inc.No.101~102 GD-V4200PZW	
⚠	100	LC10528-003B	F.PANEL ASSY	Inc.No.101~102 GD-V4200PZW-G	
	101	LC40454-001C	REMOCON WINDOW		
	102	PGD30011-2	JVC MARK		
⚠	200	LC20358-001B	CONTROL BASE ASS	Inc.No.201 GD-V4200PZW	
⚠	200	LC20358-002A	CONTROL BASE ASS	Inc.No.201 GD-V4200PZW-G	
	201	LC30852-001A	CONTROL SHEET		

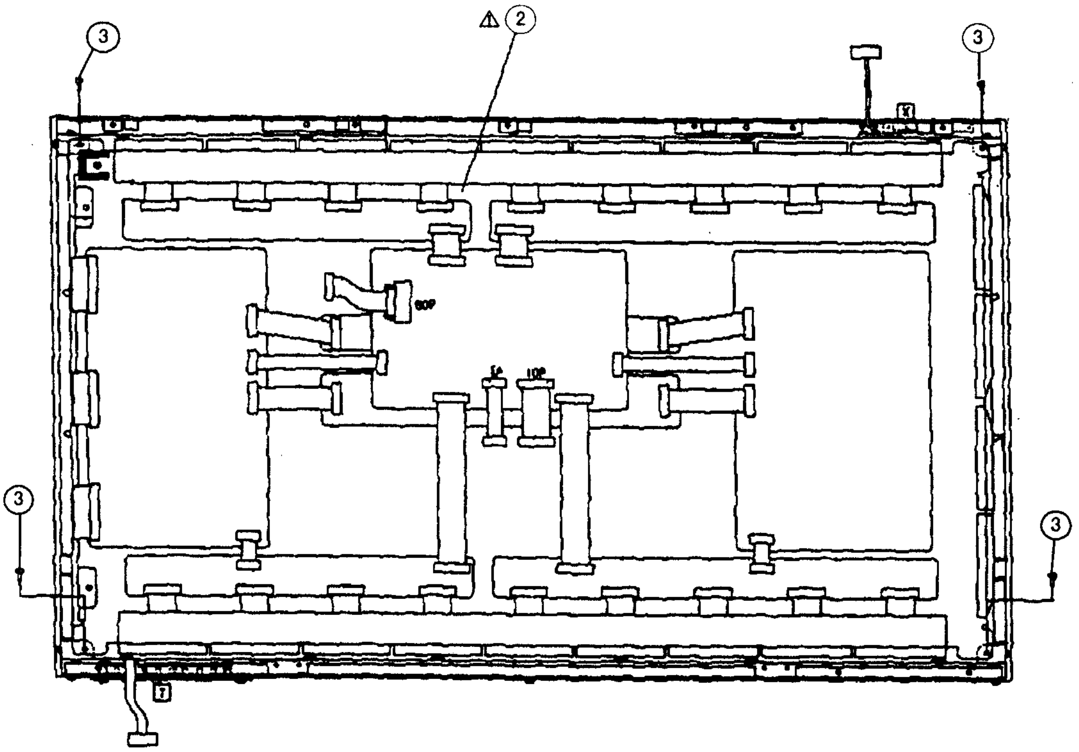
REMOTE CONTROL UNIT PARTS LIST(RM-C575-1)

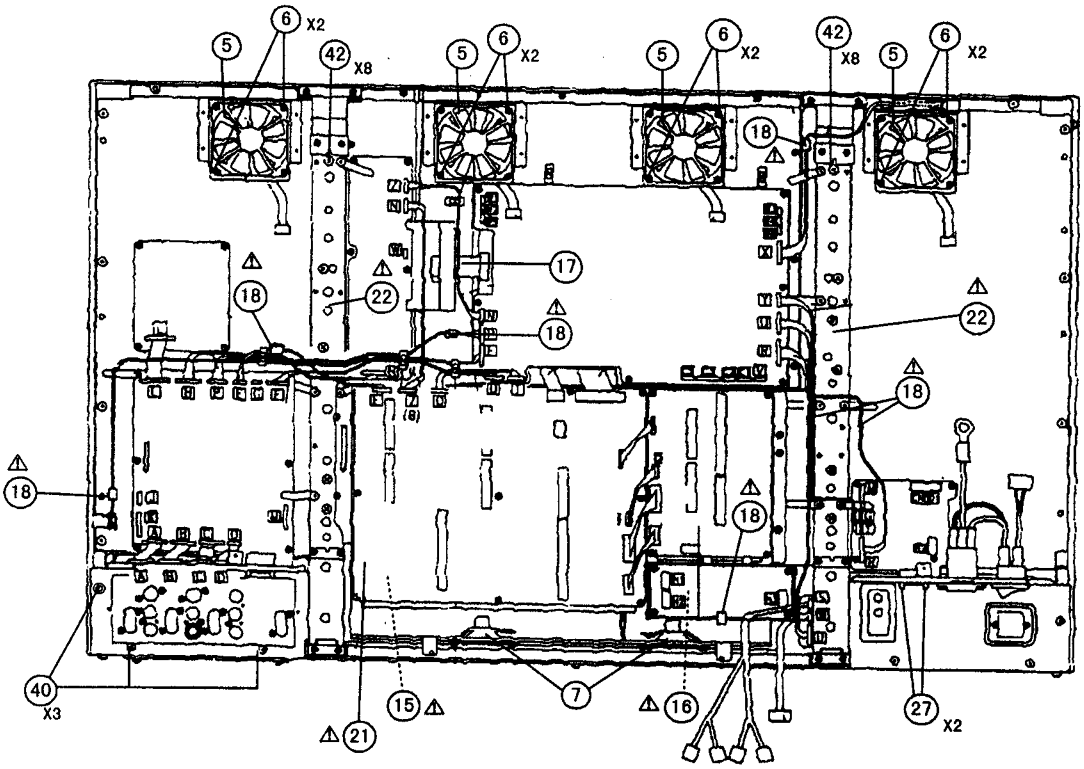
⚠	Ref.No.	Part No.	Part Name.	Description	Local
		BAH110268A	BATTERY COVER		

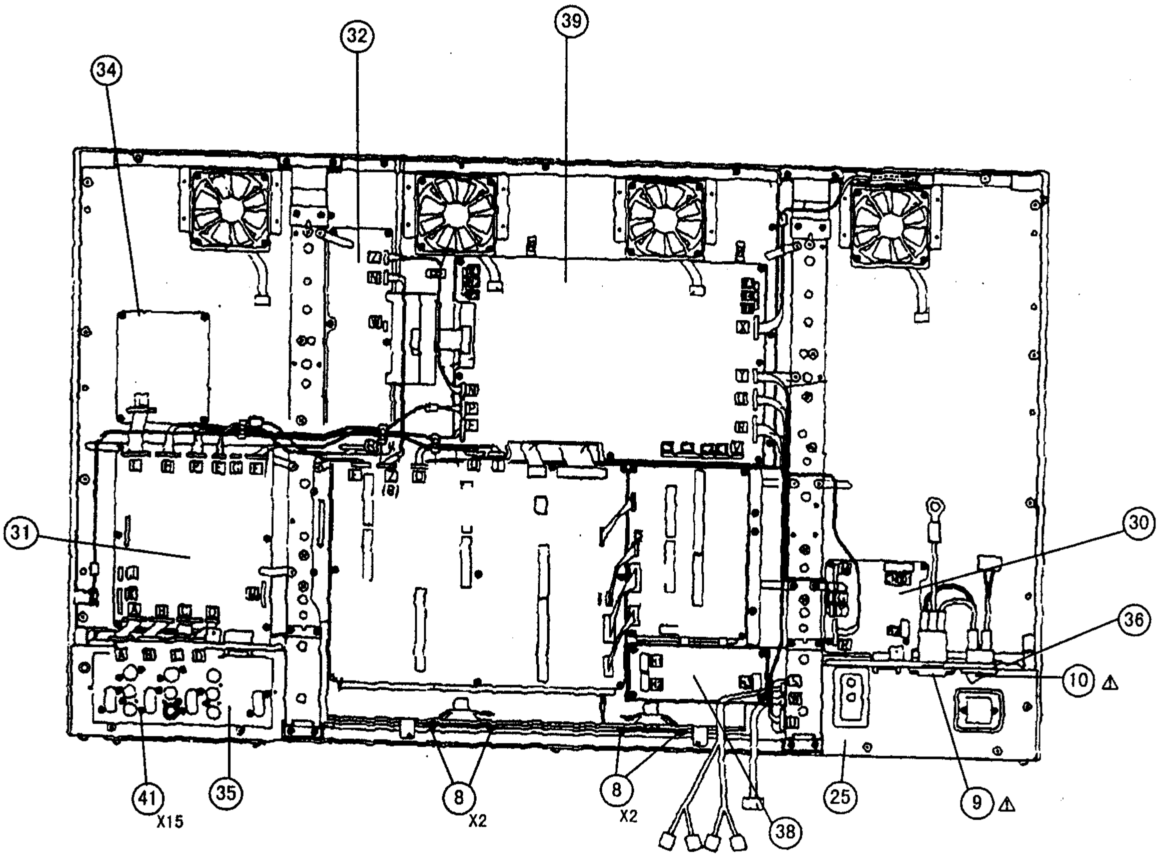
EXPLODED VIEW

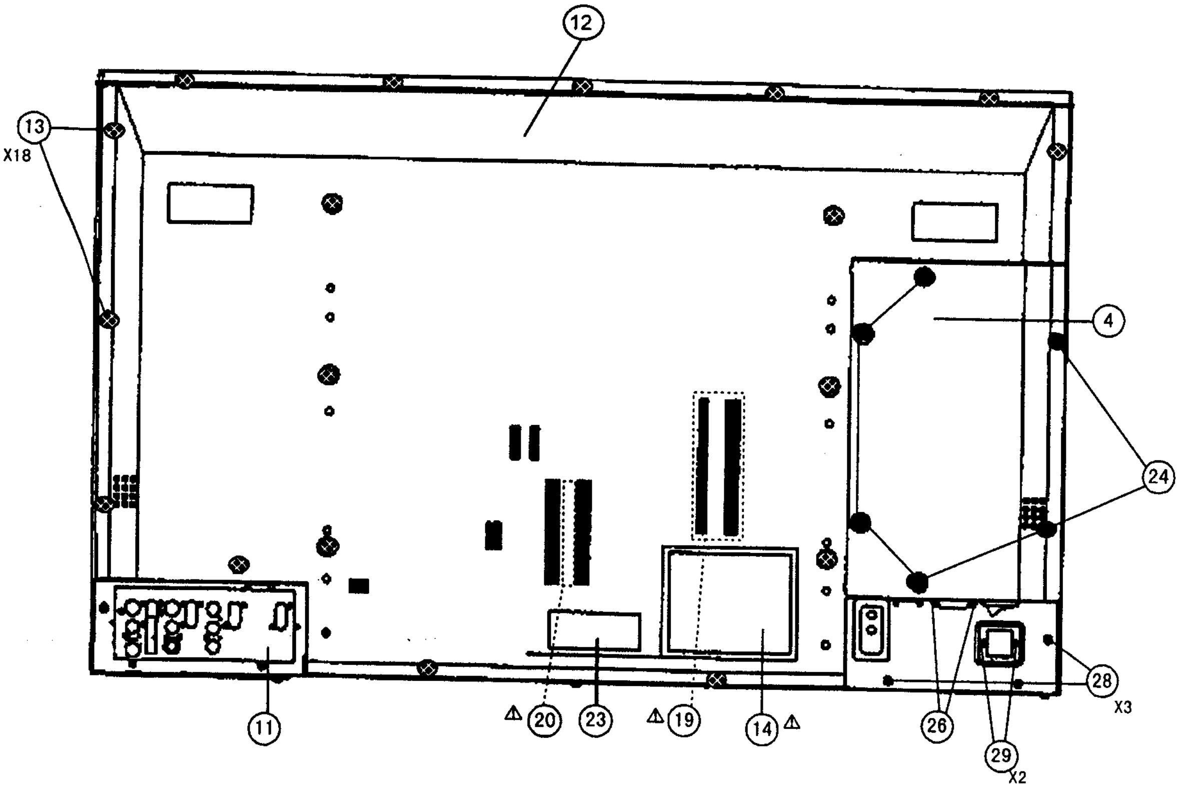

101
⚠
100
JVC
102


37
⚠
1
33
201
200
⚠


⚠②
③
③
③
③
80P
14
10P


⑥ X2
⑤
㊷ X8
⑤
⑥ X2
⑤
⑥ X2
㊷ X8
⑤
⑥ X2
⑱ ⚠
⑰
⚠ ⑱
㉒
⚠
⑱
⚠
㉒
⚠
⑱
⚠
⑱
⚠
⑱
⑦
⑮ ⚠
⚠ ⑯
㉗ X2
㊵ X3
⚠ ㉑


10 ⚠
X15
X2
X2
9 ⚠


X18
X3
⚠ 20
⚠ 19
14 ⚠
X2

PRINTED WIRING BOARD PARTS LIST

DIGITAL P.W. BOARD ASS'Y (FX-1117A)

RESISTOR

⚠	Symbol No.	Part No.	Part Name	Description	Local
	R1102-03	NRSA63J-223X	MG R	22kΩ 1/16W	J
	R1104	NRSA63J-222X	MG R	2.2kΩ 1/16W	J
	R1105	NRSA63J-391X	MG R	390Ω 1/16W	J
	R1106	NRSA63J-102X	MG R	1kΩ 1/16W	J
	R1108	NRSA63J-391X	MG R	390Ω 1/16W	J
	R1109	NRSA63J-472X	MG R	4.7kΩ 1/16W	J
	R1111	NRSA63J-102X	MG R	1kΩ 1/16W	J
	R1112	NRSA63J-472X	MG R	4.7kΩ 1/16W	J
	R1114-15	NRSA63J-223X	MG R	22kΩ 1/16W	J
	R1116	NRSA63J-222X	MG R	2.2kΩ 1/16W	J
	R1117	NRSA63J-391X	MG R	390Ω 1/16W	J
	R1118	NRSA63J-102X	MG R	1kΩ 1/16W	J
	R1120	NRSA63J-391X	MG R	390Ω 1/16W	J
	R1121	NRSA63J-472X	MG R	4.7kΩ 1/16W	J
	R1123	NRSA63J-102X	MG R	1kΩ 1/16W	J
	R1124	NRSA63J-472X	MG R	4.7kΩ 1/16W	J
	R1126-27	NRSA63J-223X	MG R	22kΩ 1/16W	J
	R1128	NRSA63J-222X	MG R	2.2kΩ 1/16W	J
	R1129	NRSA63J-391X	MG R	390Ω 1/16W	J
	R1130	NRSA63J-102X	MG R	1kΩ 1/16W	J
	R1132	NRSA63J-391X	MG R	390Ω 1/16W	J
	R1133	NRSA63J-472X	MG R	4.7kΩ 1/16W	J
	R1135	NRSA63J-102X	MG R	1kΩ 1/16W	J
	R1136	NRSA63J-472X	MG R	4.7kΩ 1/16W	J
	R1137	NRSA63J-103X	MG R	10kΩ 1/16W	J
	R1138-40	NRSA63J-222X	MG R	2.2kΩ 1/16W	J
	R1144	NRSA63J-152X	MG R	1.5kΩ 1/16W	J
	R1145-47	NRSA63J-681X	MG R	680Ω 1/16W	J
	R1148-49	NRSA63J-682X	MG R	6.8kΩ 1/16W	J
	R1150	NRSA63J-103X	MG R	10kΩ 1/16W	J
	R1151-52	NRSA63J-222X	MG R	2.2kΩ 1/16W	J
	R1153-54	NRSA63J-101X	MG R	100Ω 1/16W	J
	R1155-56	NRSA63J-222X	MG R	2.2kΩ 1/16W	J
	R1157	NRSA63J-153X	MG R	15kΩ 1/16W	J
	R1158	NRSA63J-103X	MG R	10kΩ 1/16W	J
	R1159	NRSA63J-123X	MG R	12kΩ 1/16W	J
	R1160	NRSA63J-103X	MG R	10kΩ 1/16W	J
	R1161	NRSA63J-393X	MG R	39kΩ 1/16W	J
	R1162-63	NRSA63J-103X	MG R	10kΩ 1/16W	J
	R1164	NRSA63J-223X	MG R	22kΩ 1/16W	J
	R1165	NRSA63J-103X	MG R	10kΩ 1/16W	J
	R1166	NRSA63J-223X	MG R	22kΩ 1/16W	J
	R1167	NRSA63J-332X	MG R	3.3kΩ 1/16W	J
	R1168	NRSA63J-474X	MG R	470kΩ 1/16W	J
	R1169	NRSA63J-683X	MG R	68kΩ 1/16W	J
	R1170	NRSA63J-103X	MG R	10kΩ 1/16W	J
	R1171	NRSA63J-822X	MG R	8.2kΩ 1/16W	J
	R1172	NRSA63J-272X	MG R	2.7kΩ 1/16W	J
	R1173-74	NRSA63J-103X	MG R	10kΩ 1/16W	J
	R1175	NRSA63J-683X	MG R	68kΩ 1/16W	J
	R1176-78	NRSA63J-822X	MG R	8.2kΩ 1/16W	J
	R1179	NRSA63J-272X	MG R	2.7kΩ 1/16W	J
	R1180	NRSA63J-332X	MG R	3.3kΩ 1/16W	J
	R1181-82	NRSA63J-472X	MG R	4.7kΩ 1/16W	J
	R1183	NRSA63J-332X	MG R	3.3kΩ 1/16W	J
	R1184	NRSA63J-682X	MG R	6.8kΩ 1/16W	J
	R1185-86	NRSA63J-101X	MG R	100Ω 1/16W	J
	R1191	NRSA63J-103X	MG R	10kΩ 1/16W	J
	R1192	NRSA63J-123X	MG R	12kΩ 1/16W	J
	R1193	NRSA63J-472X	MG R	4.7kΩ 1/16W	J
	R1196	NRSA63J-223X	MG R	22kΩ 1/16W	J
	R1197-99	NRSA63J-222X	MG R	2.2kΩ 1/16W	J
	R1200	NRSA63J-222X	MG R	2.2kΩ 1/16W	J
	R1201	NRSA63J-103X	MG R	10kΩ 1/16W	J
	R1202-03	NRSA63J-101X	MG R	100Ω 1/16W	J
	R1204-09	NRSA63J-103X	MG R	10kΩ 1/16W	J
	R1211-13	NRSA63J-103X	MG R	10kΩ 1/16W	J
	R1214-17	NRSA63J-222X	MG R	2.2kΩ 1/16W	J
	R1218	NRSA63J-562X	MG R	5.6kΩ 1/16W	J
	R1219-21	NRSA63J-222X	MG R	2.2kΩ 1/16W	J
	R1223	NRSA63J-101X	MG R	100Ω 1/16W	J
	R1225	NRSA63J-102X	MG R	1kΩ 1/16W	J
	R1226	NRSA63J-332X	MG R	3.3kΩ 1/16W	J
	R1227-28	NRSA63J-103X	MG R	10kΩ 1/16W	J
	R1301-03	NRSA63J-101X	MG R	100Ω 1/16W	J
	R1304-05	NRSA63J-103X	MG R	10kΩ 1/16W	J
	R1306	NRSA63J-221X	MG R	220Ω 1/16W	J
	R1307	NRSA63J-100X	MG R	10Ω 1/16W	J
	R1308	NRS181J-820X	MG R	82Ω 1/8W	J
	R1309	NRSA63J-821X	MG R	820Ω 1/16W	J
	R1311-12	NRSA63J-101X	MG R	100Ω 1/16W	J
	R1313	NRSA63J-103X	MG R	10kΩ 1/16W	J
	R1314	NRS181J-100X	MG R	10Ω 1/8W	J
	R1315	NRSA63J-224X	MG R	220kΩ 1/16W	J
	R1316-17	NRSA63J-0R0X	MG R	0.0Ω 1/16W	J
	R1319	NRSA63J-474X	MG R	470kΩ 1/16W	J
	R1320-21	NRZ0014-103X	CHIP NW RESISTOR		
	R1401	NRSA63J-224X	MG R	220kΩ 1/16W	J
	R1402-04	NRSA63J-101X	MG R	100Ω 1/16W	J
	R1405-06	NRSA63J-103X	MG R	10kΩ 1/16W	J
	R1407	NRSA63J-221X	MG R	220Ω 1/16W	J
	R1408	NRSA63J-100X	MG R	10Ω 1/16W	J
	R1409	NRS181J-820X	MG R	82Ω 1/8W	J
	R1410	NRSA63J-821X	MG R	820Ω 1/16W	J
	R1411	NRS181J-100X	MG R	10Ω 1/8W	J
	R1412-13	NRSA63J-472X	MG R	4.7kΩ 1/16W	J
	R1414-15	NRZ0014-0R0X	CHIP NW RESISTOR		
	R1416-17	NRSA63J-101X	MG R	100Ω 1/16W	J
	R1419	NRSA63J-0R0X	MG R	0.0Ω 1/16W	J
	R1421	NRSA63J-103X	MG R	10kΩ 1/16W	J
	R1423	NRSA63J-474X	MG R	470kΩ 1/16W	J
	R1425	NRSA63J-472X	MG R	4.7kΩ 1/16W	J
	R1426	NRSA63J-0R0X	MG R	0.0Ω 1/16W	J
	R1429	NRSA63J-104X	MG R	100kΩ 1/16W	J
	R1430	NRSA63J-103X	MG R	10kΩ 1/16W	J
	R1432	NRSA63J-123X	MG R	12kΩ 1/16W	J
	R1435	NRSA63J-0R0X	MG R	0.0Ω 1/16W	J
	R1437-42	NRZ0014-103X	CHIP NW RESISTOR		
	R1501-04	NRSA63J-122X	MG R	1.2kΩ 1/16W	J
	R1505	NRSA63J-472X	MG R	4.7kΩ 1/16W	J
	R1506	NRSA63J-101X	MG R	100Ω 1/16W	J
	R1507	NRSA63J-472X	MG R	4.7kΩ 1/16W	J
	R1508-09	NRSA63J-101X	MG R	100Ω 1/16W	J
	R1510-13	NRZ0014-101X	NETW.R		
	R1516-17	NRZ0014-101X	NETW.R		
	R1519-20	NRZ0014-101X	NETW.R		
	R1523-25	NRSA63J-0R0X	MG R	0.0Ω 1/16W	J
	R1526	QRE141J-470Y	C R	47Ω 1/4W	J
	R1527-30	NRSA63J-0R0X	MG R	0.0Ω 1/16W	J
	R1531-33	NRSA63J-101X	MG R	100Ω 1/16W	J
	R1534	NRZ0014-101X	NETW.R		
	R1535-36	NRSA63J-101X	MG R	100Ω 1/16W	J
	R1538-39	NRZ0014-103X	CHIP NW RESISTOR		
	R1540-44	NRSA63J-101X	MG R	100Ω 1/16W	J
	R1552-62	NRSA63J-0R0X	MG R	0.0Ω 1/16W	J
	R1564	NRZ0014-103X	CHIP NW RESISTOR		
	R1565-66	NRSA63J-103X	MG R	10kΩ 1/16W	J
	R1567	NRZ0014-101X	NETW.R		

RESISTOR

Δ	Symbol No.	Part No.	Part Name	Description	Local
	R1568-69	NRSA63J-101X	MG R	100Ω 1/16W	J
	R1570	NRSA63J-472X	MG R	4.7kΩ 1/16W	J
	R1571	NRSA63J-101X	MG R	100Ω 1/16W	J
	R1572-76	NRS181J-331X	MG R	330Ω 1/8W	J
	R1579	NRSA63J-124X	MG R	120kΩ 1/16W	J
	R1580	NRSA63J-472X	MG R	4.7kΩ 1/16W	J
	R1581	NRSA63J-102X	MG R	1kΩ 1/16W	J
	R1583	NRSA63J-103X	MG R	10kΩ 1/16W	J
	R1601	NRSA63J-393X	MG R	39kΩ 1/16W	J
	R1602-06	NRSA63J-101X	MG R	100Ω 1/16W	J
	R1607-08	NRSA63J-103X	MG R	10kΩ 1/16W	J
	R1609	NRZ0014-103X	CHIP NW RESISTOR		
	R1610	NRSA63J-103X	MG R	10kΩ 1/16W	J
	R1611-13	NRSA63J-101X	MG R	100Ω 1/16W	J
	R1614-17	NRSA63J-223X	MG R	22kΩ 1/16W	J
	R1618-19	NRSA63J-103X	MG R	10kΩ 1/16W	J
	R1620-21	NRSA63J-101X	MG R	100Ω 1/16W	J
	R1622	NRSA63J-0R0X	MG R	0.0Ω 1/16W	J
	R1623-34	NRSA63J-101X	MG R	100Ω 1/16W	J
	R1635-38	NRSA63J-472X	MG R	4.7kΩ 1/16W	J
	R1639	NRSA63J-101X	MG R	100Ω 1/16W	J
	R1640	NRSA63J-472X	MG R	4.7kΩ 1/16W	J
	R1641	NRSA63J-101X	MG R	100Ω 1/16W	J
	R1642	NRSA63J-151X	MG R	150Ω 1/16W	J
	R1643	NRSA63J-102X	MG R	1kΩ 1/16W	J
	R1644-45	NRSA63J-101X	MG R	100Ω 1/16W	J
	R1646-47	NRSA63J-472X	MG R	4.7kΩ 1/16W	J
	R1648-62	NRSA63J-101X	MG R	100Ω 1/16W	J
	R1663	NRSA63J-104X	MG R	100kΩ 1/16W	J
	R1664-65	NRSA63J-101X	MG R	100Ω 1/16W	J
	R1666-67	NRSA63J-472X	MG R	4.7kΩ 1/16W	J
	R1668-69	NRSA63J-101X	MG R	100Ω 1/16W	J
	R1670	NRSA63J-472X	MG R	4.7kΩ 1/16W	J
	R1671-91	NRSA63J-101X	MG R	100Ω 1/16W	J
	R1692-93	NRSA63J-472X	MG R	4.7kΩ 1/16W	J
	R1694-95	NRZ0014-103X	CHIP NW RESISTOR		
	R1696-99	NRSA63J-472X	MG R	4.7kΩ 1/16W	J
	R1701	NRSA63J-392X	MG R	3.9kΩ 1/16W	J
	R1702	NRSA63J-682X	MG R	6.8kΩ 1/16W	J
	R1703	NRSA63J-222X	MG R	2.2kΩ 1/16W	J
	R1704	NRSA63J-331X	MG R	330Ω 1/16W	J
	R1706	NRSA63J-331X	MG R	330Ω 1/16W	J
	R1707	NRSA63J-472X	MG R	4.7kΩ 1/16W	J
	R1708	NRSA63J-392X	MG R	3.9kΩ 1/16W	J
	R1709	NRSA63J-682X	MG R	6.8kΩ 1/16W	J
	R1710	NRSA63J-222X	MG R	2.2kΩ 1/16W	J
	R1711	NRSA63J-331X	MG R	330Ω 1/16W	J
	R1713	NRSA63J-331X	MG R	330Ω 1/16W	J
	R1714	NRSA63J-472X	MG R	4.7kΩ 1/16W	J
	R1715	NRSA63J-392X	MG R	3.9kΩ 1/16W	J
	R1716	NRSA63J-682X	MG R	6.8kΩ 1/16W	J
	R1717	NRSA63J-222X	MG R	2.2kΩ 1/16W	J
	R1718	NRSA63J-331X	MG R	330Ω 1/16W	J
	R1720	NRSA63J-331X	MG R	330Ω 1/16W	J
	R1721	NRSA63J-472X	MG R	4.7kΩ 1/16W	J
	R1722	NRSA63J-152X	MG R	1.5kΩ 1/16W	J
	R1723-25	NRSA63J-681X	MG R	680Ω 1/16W	J
	R1726-27	NRSA63J-101X	MG R	100Ω 1/16W	J
	R1728-29	NRSA63J-682X	MG R	6.8kΩ 1/16W	J
	R1730-38	NRSA63J-222X	MG R	2.2kΩ 1/16W	J
	R1739	NRSA63J-562X	MG R	5.6kΩ 1/16W	J
	R1740-45	NRSA63J-222X	MG R	2.2kΩ 1/16W	J
	R1746	NRSA63J-103X	MG R	10kΩ 1/16W	J
	R1747	NRSA63J-102X	MG R	1kΩ 1/16W	J
	R1748	NRSA63J-332X	MG R	3.3kΩ 1/16W	J
	R1801	NRS181J-100X	MG R	10Ω 1/8W	J
	R1802	NRSA63J-474X	MG R	470kΩ 1/16W	J
	R1803	NRSA63J-224X	MG R	220kΩ 1/16W	J
	R1804-06	NRSA63J-101X	MG R	100Ω 1/16W	J
	R1807-08	NRSA63J-103X	MG R	10kΩ 1/16W	J
	R1809	NRSA63J-221X	MG R	220Ω 1/16W	J
	R1810	NRSA63J-100X	MG R	10Ω 1/16W	J
	R1811	NRSA63J-821X	MG R	820Ω 1/16W	J
	R1812	NRS181J-820X	MG R	82Ω 1/8W	J
	R1813	NRSA63J-0R0X	MG R	0.0Ω 1/16W	J
	R1814	NRSA63J-102X	MG R	1kΩ 1/16W	J
	R1815-16	NRSA63J-101X	MG R	100Ω 1/16W	J
	R1817-18	NRZ0014-103X	CHIP NW RESISTOR		

CAPACITOR

Δ	Symbol No.	Part No.	Part Name	Description	Local
	C1101	NEH71CM-476X	E CAP.	47μF 16V	M
	C1102	NCF31CZ-104X	C CAP.	0.1μF 16V	Z
	C1103-05	NEH71CM-476X	E CAP.	47μF 16V	M
	C1106	NCB31HK-103X	C CAP.	0.01μF 50V	K
	C1107	NEH71CM-476X	E CAP.	47μF 16V	M
	C1108-10	NEN51AM-336X	CHIP AL BP E CAP	33μF 10V	M
	C1111-13	NEH71CM-476X	E CAP.	47μF 16V	M
	C1114-16	NEH71HM-225X	E CAP.	2.2μF 50V	M
	C1117-18	NCF31CZ-104X	C CAP.	0.1μF 16V	Z
	C1120	NEH70JM-107X	E CAP.	100μF 6.3V	M
	C1121	NCB31HK-103X	C CAP.	0.01μF 50V	K
	C1122	NCF31CZ-104X	C CAP.	0.1μF 16V	Z
	C1123-24	NDC31HJ-330X	C CAP.	33pF 50V	J
	C1125-26	NEH71CM-476X	E CAP.	47μF 16V	M
	C1127	NCB31HK-103X	C CAP.	0.01μF 50V	K
	C1128	NDC31HJ-101X	C CAP.	100pF 50V	J
	C1129	NDC31HJ-470X	C CAP.	47pF 50V	J
	C1131	NEH71HM-474X	E CAP.	0.47μF 50V	M
	C1132	NEH71CM-476X	E CAP.	47μF 16V	M
	C1133	NCB31HK-103X	C CAP.	0.01μF 50V	K
	C1134-35	NDC31HJ-101X	C CAP.	100pF 50V	J
	C1136	NEH71CM-476X	E CAP.	47μF 16V	M
	C1137	NCB31HK-103X	C CAP.	0.01μF 50V	K
	C1138	NDC31HJ-101X	C CAP.	100pF 50V	J
	C1139	NEH71HM-105X	E CAP.	1μF 50V	M
	C1140	NDC31HJ-101X	C CAP.	100pF 50V	J
	C1141	NEH71CM-476X	E CAP.	47μF 16V	M
	C1142	NCB31HK-103X	C CAP.	0.01μF 50V	K
	C1143	NEH71CM-476X	E CAP.	47μF 16V	M
	C1144	NCB31HK-103X	C CAP.	0.01μF 50V	K
	C1145	NDC31HJ-330X	C CAP.	33pF 50V	J
	C1201	NEH71CM-476X	E CAP.	47μF 16V	M
	C1202	NCF31CZ-104X	C CAP.	0.1μF 16V	Z
	C1203	NEH71HM-105X	E CAP.	1μF 50V	M
	C1204	NEH71CM-476X	E CAP.	47μF 16V	M
	C1205	NCF31CZ-104X	C CAP.	0.1μF 16V	Z
	C1206	NEH71HM-105X	E CAP.	1μF 50V	M
	C1207	NEH71CM-476X	E CAP.	47μF 16V	M
	C1208	NCF31CZ-104X	C CAP.	0.1μF 16V	Z
	C1209	NEH71HM-105X	E CAP.	1μF 50V	M
	C1210	NEH70JM-107X	E CAP.	100μF 6.3V	M
	C1211-18	NCF31CZ-104X	C CAP.	0.1μF 16V	Z
	C1219	NEH70JM-107X	E CAP.	100μF 6.3V	M
	C1221-23	NCF31CZ-104X	C CAP.	0.1μF 16V	Z
	C1224	NEH70JM-107X	E CAP.	100μF 6.3V	M
	C1225-26	NCF31CZ-104X	C CAP.	0.1μF 16V	Z
	C1227	NEH70JM-107X	E CAP.	100μF 6.3V	M
	C1228-29	NCF31CZ-104X	C CAP.	0.1μF 16V	Z
	C1230	NEH70JM-107X	E CAP.	100μF 6.3V	M

CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description	Local
	C1231-42	NCF31CZ-104X	C CAP.	0.1µF 16V Z	
	C1244-57	NCF31CZ-104X	C CAP.	0.1µF 16V Z	
	C1259-62	NCF31CZ-104X	C CAP.	0.1µF 16V Z	
	C1263	NEH70JM-107X	E CAP.	100µF 6.3V M	
	C1264	NCF31CZ-104X	C CAP.	0.1µF 16V Z	
	C1266-68	NCF31CZ-104X	C CAP.	0.1µF 16V Z	
	C1270-72	NCF31CZ-104X	C CAP.	0.1µF 16V Z	
	C1301	NEH71CM-476X	E CAP.	47µF 16V M	
	C1302	NCB31HK-103X	C CAP.	0.01µF 50V K	
	C1303	NEH70JM-107X	E CAP.	100µF 6.3V M	
	C1304	NCB31HK-103X	C CAP.	0.01µF 50V K	
	C1305	NEH70JM-107X	E CAP.	100µF 6.3V M	
	C1306	NCF31CZ-104X	C CAP.	0.1µF 16V Z	
	C1307	NDC31HJ-101X	C CAP.	100pF 50V J	
	C1308	NCS21HJ-152X	C CAP.	1500pF 50V J	
	C1309	NCB31HK-103X	C CAP.	0.01µF 50V K	
	C1310-13	NCF31CZ-104X	C CAP.	0.1µF 16V Z	
	C1314	NEH70JM-107X	E CAP.	100µF 6.3V M	
	C1315-18	NCF31CZ-104X	C CAP.	0.1µF 16V Z	
	C1319	NCS21HJ-152X	C CAP.	1500pF 50V J	
	C1401	NEH70JM-107X	E CAP.	100µF 6.3V M	
	C1402	NCB31HK-103X	C CAP.	0.01µF 50V K	
	C1403	NEH70JM-107X	E CAP.	100µF 6.3V M	
	C1404	NCB31HK-103X	C CAP.	0.01µF 50V K	
	C1405-24	NCF31CZ-104X	C CAP.	0.1µF 16V Z	
	C1426-29	NCF31CZ-104X	C CAP.	0.1µF 16V Z	
	C1430	NEH70JM-107X	E CAP.	100µF 6.3V M	
	C1431	NEH71CM-476X	E CAP.	47µF 16V M	
	C1432	NCB31HK-103X	C CAP.	0.01µF 50V K	
	C1433	NEH70JM-107X	E CAP.	100µF 6.3V M	
	C1434	NCB31HK-103X	C CAP.	0.01µF 50V K	
	C1435	NEH70JM-107X	E CAP.	100µF 6.3V M	
	C1436	NCB31HK-103X	C CAP.	0.01µF 50V K	
	C1437	NDC31HJ-101X	C CAP.	100pF 50V J	
	C1438	NCB31HK-103X	C CAP.	0.01µF 50V K	
	C1439-42	NCF31CZ-104X	C CAP.	0.1µF 16V Z	
	C1443	NCS21HJ-152X	C CAP.	1500pF 50V J	
	C1444	NEH70JM-107X	E CAP.	100µF 6.3V M	
	C1445-47	NCF31CZ-104X	C CAP.	0.1µF 16V Z	
	C1449	NCS21HJ-152X	C CAP.	1500pF 50V J	
	C1450	NEH70JM-107X	E CAP.	100µF 6.3V M	
	C1451	NCF31CZ-104X	C CAP.	0.1µF 16V Z	
	C1452	NDC31HJ-330X	C CAP.	33pF 50V J	
	C1454	NCF31CZ-104X	C CAP.	0.1µF 16V Z	
	C1501	NEH70JM-107X	E CAP.	100µF 6.3V M	
	C1502	NCB31HK-103X	C CAP.	0.01µF 50V K	
	C1503	NEH70JM-107X	E CAP.	100µF 6.3V M	
	C1504	NCB31HK-103X	C CAP.	0.01µF 50V K	
	C1505-20	NCF31CZ-104X	C CAP.	0.1µF 16V Z	
	C1521	NEH70JM-107X	E CAP.	100µF 6.3V M	
	C1522	NCF31CZ-104X	C CAP.	0.1µF 16V Z	
	C1523	NEH70JM-107X	E CAP.	100µF 6.3V M	
	C1524-30	NCF31CZ-104X	C CAP.	0.1µF 16V Z	
	C1601	NEH71CM-476X	E CAP.	47µF 16V M	
	C1602-03	NCF31CZ-104X	C CAP.	0.1µF 16V Z	
	C1604	NEH70JM-107X	E CAP.	100µF 6.3V M	
	C1605-06	NCF31CZ-104X	C CAP.	0.1µF 16V Z	
	C1607	NEH71CM-476X	E CAP.	47µF 16V M	
	C1608-09	NCF31CZ-104X	C CAP.	0.1µF 16V Z	
	C1610	NEH70JM-107X	E CAP.	100µF 6.3V M	
	C1611	NCF31CZ-104X	C CAP.	0.1µF 16V Z	
	C1612	NEH70JM-107X	E CAP.	100µF 6.3V M	
	C1613-15	NCF31CZ-104X	C CAP.	0.1µF 16V Z	
	C1616	NEH70JM-107X	E CAP.	100µF 6.3V M	

CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description	Local
	C1617-18	NCF31CZ-104X	C CAP.	0.1µF 16V Z	
	C1619	NEH70JM-107X	E CAP.	100µF 6.3V M	
	C1620	NCF31CZ-104X	C CAP.	0.1µF 16V Z	
	C1621	NEH70JM-107X	E CAP.	100µF 6.3V M	
	C1622-26	NCF31CZ-104X	C CAP.	0.1µF 16V Z	
	C1627	NCF11EZ-105X	C CAP.	1µF 25V Z	
	C1628	NCF31CZ-104X	C CAP.	0.1µF 16V Z	
	C1630-33	NCF31CZ-104X	C CAP.	0.1µF 16V Z	
	C1634	NEH70JM-107X	E CAP.	100µF 6.3V M	
	C1635	NCB31HK-103X	C CAP.	0.01µF 50V K	
	C1636	NCF31CZ-104X	C CAP.	0.1µF 16V Z	
	C1638-43	NCB31HK-103X	C CAP.	0.01µF 50V K	
	C1644	NCF31CZ-104X	C CAP.	0.1µF 16V Z	
	C1645	NDC31HJ-271X	CHIP C CAPACITOR	270pF 50V J	
	C1646	NEH70JM-107X	E CAP.	100µF 6.3V M	
	C1647	NCF31CZ-104X	C CAP.	0.1µF 16V Z	
	C1648-49	NEH71CM-476X	E CAP.	47µF 16V M	
	C1650	NEH70JM-107X	E CAP.	100µF 6.3V M	
	C1651-55	NEH71CM-476X	E CAP.	47µF 16V M	
	C1656-58	NCB31HK-103X	C CAP.	0.01µF 50V K	
	C1701	NEH70JM-107X	E CAP.	100µF 6.3V M	
	C1702-04	NCF31CZ-104X	C CAP.	0.1µF 16V Z	
	C1705	NEH70JM-107X	E CAP.	100µF 6.3V M	
	C1706	NCF31CZ-104X	C CAP.	0.1µF 16V Z	
	C1707	NEH71CM-476X	E CAP.	47µF 16V M	
	C1708	NCF31CZ-104X	C CAP.	0.1µF 16V Z	
	C1709	NEH71HM-105X	E CAP.	1µF 50V M	
	C1710	NEH71CM-476X	E CAP.	47µF 16V M	
	C1711	NCF31CZ-104X	C CAP.	0.1µF 16V Z	
	C1712-14	NEN51AM-336X	CHIP AL BP E CAP	33µF 10V M	
	C1715-20	NEH71CM-476X	E CAP.	47µF 16V M	
	C1721-23	NEH71HM-225X	E CAP.	2.2µF 50V M	
	C1724	NEH71CM-476X	E CAP.	47µF 16V M	
	C1725	NCB31HK-103X	C CAP.	0.01µF 50V K	
	C1726	NCF31CZ-104X	C CAP.	0.1µF 16V Z	
	C1727	NEH70JM-107X	E CAP.	100µF 6.3V M	
	C1728	NCB31HK-103X	C CAP.	0.01µF 50V K	
	C1729	NEH71CM-476X	E CAP.	47µF 16V M	
	C1730	NCF31CZ-104X	C CAP.	0.1µF 16V Z	
	C1731	NEH71HM-105X	E CAP.	1µF 50V M	
	C1732	NEH71CM-476X	E CAP.	47µF 16V M	
	C1733	NCF31CZ-104X	C CAP.	0.1µF 16V Z	
	C1734	NEH71HM-105X	E CAP.	1µF 50V M	
	C1735	NEH71CM-476X	E CAP.	47µF 16V M	
	C1736	NCF31CZ-104X	C CAP.	0.1µF 16V Z	
	C1737	NEH71HM-105X	E CAP.	1µF 50V M	
	C1738	NEH70JM-107X	E CAP.	100µF 6.3V M	
	C1739-41	NCF31CZ-104X	C CAP.	0.1µF 16V Z	
	C1742	NEH70JM-107X	E CAP.	100µF 6.3V M	
	C1743-52	NCF31CZ-104X	C CAP.	0.1µF 16V Z	
	C1754-56	NDC31HJ-470X	C CAP.	47pF 50V J	
	C1801	NEH71CM-476X	E CAP.	47µF 16V M	
	C1802	NCB31HK-103X	C CAP.	0.01µF 50V K	
	C1803	NEH70JM-107X	E CAP.	100µF 6.3V M	
	C1804	NCB31HK-103X	C CAP.	0.01µF 50V K	
	C1805	NEH70JM-107X	E CAP.	100µF 6.3V M	
	C1806	NCB31HK-103X	C CAP.	0.01µF 50V K	
	C1807	NDC31HJ-101X	C CAP.	100pF 50V J	
	C1808-09	NCS21HJ-152X	C CAP.	1500pF 50V J	
	C1810	NCB31HK-103X	C CAP.	0.01µF 50V K	
	C1811-17	NCF31CZ-104X	C CAP.	0.1µF 16V Z	

TRANSFORMER

⚠	Symbol No.	Part No.	Part Name	Description	Local
	T1101	NQR0362-001X	LPF		

⚠	Symbol No.	Part No.	Part Name	Description	Local
	TRANSFORMER				
	T1102	NQR0364-001X	LPF		
	T1103	NQR0362-001X	LPF		
	T1104	NQR0364-001X	LPF		
	T1105	NQR0362-001X	LPF		
	T1106	NQR0364-001X	LPF		
	T1107-09	NQR0363-001X	LPF		
	T1701-03	NQR0361-001X	LPF		
	DIODE				
	D1101	MA111-X	SI.DIODE		
	D1601-10	MA3056/M/-X	ZENER DIODE		
	D1611	MA788-X	S B DIODE		
	TRANSISTOR				
	Q1101	2SC2778/C/-X	SI.TRANSISTOR		
	Q1102-03	2SA1022/BC/-X	SI.TRANSISTOR		
	Q1104	2SC2778/C/-X	SI.TRANSISTOR		
	Q1105-06	2SA1022/BC/-X	SI.TRANSISTOR		
	Q1107	2SC2778/C/-X	SI.TRANSISTOR		
	Q1108-09	2SA1022/BC/-X	SI.TRANSISTOR		
	Q1110	DTC363TK-X	DIGI.TRANSISTOR		
	Q1111-13	2SC2778/C/-X	SI.TRANSISTOR		
	Q1114	DTC363TK-X	DIGI.TRANSISTOR		
	Q1115	2SC2778/C/-X	SI.TRANSISTOR		
	Q1117	2SC2778/C/-X	SI.TRANSISTOR		
	Q1118	IMX1-W	TRANSISTOR		
	Q1602-06	DTA144TKA-X	DIGI.TRANSISTOR		
	Q1607	2SC2412K/QR/-X	SI.TRANSISTOR		
	Q1701	2SC2412K/QR/-X	SI.TRANSISTOR		
	Q1702	2SA1022/BC/-X	SI.TRANSISTOR		
	Q1703	2SC2412K/QR/-X	SI.TRANSISTOR		
	Q1704	2SA1022/BC/-X	SI.TRANSISTOR		
	Q1705	2SC2412K/QR/-X	SI.TRANSISTOR		
	Q1706	2SA1022/BC/-X	SI.TRANSISTOR		
	Q1707	IMX1-W	TRANSISTOR		
	IC				
	IC1101	AN5862S-W	I.C.(MONO-ANA)		
	IC1102	M52327SP	I.C.(MONO-ANA)		
	IC1103	M62399FP-X	I C		
	IC1104	TC7W04F-X	I.C.(DIGI-MOS)		
	IC1105-06	TC4538BF/N/-XE	I.C.(DIGI-MOS)		
	IC1107	TC4053BF/N/-XE	I.C.(DIGI-MOS)		
	IC1108-09	UPC358G-W	I.C.(MONO-ANA)		
	IC1110	M62399FP-X	I C		
	IC1111	M52759SP	I C		
	IC1112	M5218AFP-W	I.C.(MONO-ANA)		
	IC1113	TC7W04F-X	I.C.(DIGI-MOS)		
	IC1201-03	MB40528PF-X	I C		
	IC1204-06	TC74ACT574F-X	I.C.(DIGI-MOS)		
	IC1207-08	TC74VHC157F-X	I C		
	IC1209	TC74ACT574F-X	I.C.(DIGI-MOS)		
	IC1210	JCC5025	I C		
	IC1211-12	TC74VHC157F-X	I C		
	IC1213	TC74ACT574F-X	I.C.(DIGI-MOS)		
	IC1214	GMVLD8CQ4-30	I C		
	IC1215-18	UPD42280GU-30	I.C.(S-RAM)		
	IC1219	TC7SET04FU-X	I C		
	IC1220-21	TC74VHC157F-X	I C		
	IC1222	TC74ACT574F-X	I.C.(DIGI-MOS)		
	IC1223-24	TC74VHC157F-X	I C		
	IC1225	TC74ACT574F-X	I.C.(DIGI-MOS)		
	IC1301	TA78L05F-W	I.C.(MONO-ANA)		
	IC1302	ICS1522M-X	IC		
	IC1303	TC7WU04F-X	I.C.(ECL-LOGIC)		
	IC1305	TC74ACT74F-XE	I C		
	IC1306	JLC1562BF-X	I.C.(DIGI-MOS)		
	IC1307	TC74VHC157F-X	I C		
	IC1401	BA033FP-X	I.C.(MONO-ANA)		
	IC				
	IC1304	TC74AC244F-X	I C		
	IC1402-07	TC74VHC157F-X	I C		
	IC1408	MN7C006T9D	I C		
	IC1409-12	TC74ACT574F-X	I.C.(DIGI-MOS)		
	IC1413	TA78L05F-W	I.C.(MONO-ANA)		
	IC1414	ICS1522M-X	IC		
	IC1415	TC7WU04F-X	I.C.(ECL-LOGIC)		
	IC1416-17	TC74VHC157F-X	I C		
	IC1418	TC74AC244F-X	I C		
	IC1419	TC7WU04F-X	I.C.(ECL-LOGIC)		
	IC1421	TC74HC4538AF-X	I.C.(DIGI-MOS)		
	IC1501	EPF10K50VRC2403	I C		
	IC1502	EPC1PC8-GDV4200	I C	SERVICE	
	IC1503	UPD485505G-25-X	I.C.(S-RAM)		
	IC1504-08	TC74ACT574F-X	I.C.(DIGI-MOS)		
	IC1509	TC74AC244F-X	I C		
	IC1510	JLC1562BF-X	I.C.(DIGI-MOS)		
	IC1511	BA033FP-X	I.C.(MONO-ANA)		
	IC1601	MB90F553APF-P99	I C	SERVICE	
	IC1602	AT24C32-GDV4200	I.C. (EP-ROM)	SERVICE	
	IC1603	MB90096PF-190-X	I C		
	IC1604	TC74HC02AF-X	I.C.(DIGI-MOS)		
	IC1605	TC74HC08AF-X	I C		
	IC1606	TC7W04F-X	I.C.(DIGI-MOS)		
	IC1607	TC4053BF/N/-XE	I.C.(DIGI-MOS)		
	IC1608	JLC1563M-X	I.C.(DIGI-MOS)		
	IC1609	TC4053BF/N/-XE	I.C.(DIGI-MOS)		
	IC1610	JLC1563M-X	I.C.(DIGI-MOS)		
	IC1611	JLC1562BF-X	I.C.(DIGI-MOS)		
	IC1612	DS1621S-X	I C		
	IC1613	MN1382/Q/-X	I.C.(MONO-ANA)		
	IC1614	BA05FP-X	I.C.(MONO-ANA)		
	IC1615	BA12FP-X	I.C.(MONO-ANA)		
	IC1616	BA05FP-X	I.C.(MONO-ANA)		
	IC1621	TC7W08F-X	I.C.(ECL-LOGIC)		
	IC1701-03	TC74ACT574F-X	I.C.(DIGI-MOS)		
	IC1704	MB40978PFQ	I.C.(DIGI-OTHER)		
	IC1705	M52327SP	I.C.(MONO-ANA)		
	IC1706	M62399FP-X	I C		
	IC1707-09	MB40558PF-W	I.C.(DIGI-OTHER)		
	IC1710-12	TC74ACT574F-X	I.C.(DIGI-MOS)		
	IC1713-18	TC74VHC157F-X	I C		
	IC1719-21	TC74ACT574F-X	I.C.(DIGI-MOS)		
	IC1722	M5218AFP-W	I.C.(MONO-ANA)		
	IC1801	TA78L05F-W	I.C.(MONO-ANA)		
	IC1802	ICS1522M-X	IC		
	IC1803	TC7WU04F-X	I.C.(ECL-LOGIC)		
	IC1804	TC74VHC157F-X	I C		
	IC1805	JLC1562BF-X	I.C.(DIGI-MOS)		
	IC1806	DS1021S-50-X	IC		
	OTHERS				
	CF1601	CST4.00MGW	CER.RESONATOR		
	CN1101	QGA1209F1-80	W TO B CONNE		
⚠	CP1601	ICP-N75-Y	I.C.PROTECT		
	K1201-02	CE42681-001Y	BEADS CORE		
	K1301	CE42681-001Y	BEADS CORE		
	K1401	CE42681-001Y	BEADS CORE		
	K1501	CE42681-001Y	BEADS CORE		
	K1601	CE42681-001Y	BEADS CORE		
	K1602-20	NRSA63J-0R0X	MG R	0.0Ω 1/16W J	
	K1801	CE42681-001Y	BEADS CORE		
	LC1601	CE42482-103Y	EMI FILTER		
	LC1603	CE42482-103Y	EMI FILTER		
	LC1615	CE42482-103Y	EMI FILTER		
	LC1617	CE42482-103Y	EMI FILTER		
	SK1502	CEMS007-008	I.C.SOCKET		
	SK1602	CEMS007-008	I.C.SOCKET		

CONTROL P.W.BOARD ASS'Y (FX-4064A)

⚠	Symbol No.	Part No.	Part Name	Description	Local
	DIODE				
	D4501-07	MA111-X	SI.DIODE		
	OTHERS				
	S4501	QSW0619-003Z	PUSH SWITCH	RIGHT	
	S4502	QSW0619-003Z	PUSH SWITCH	LEFT	
	S4503	QSW0619-003Z	PUSH SWITCH	UP	
	S4504	QSW0619-003Z	PUSH SWITCH	DOWN	
	S4505	QSW0619-003Z	PUSH SWITCH	INPUT	
	S4506	QSW0619-003Z	PUSH SWITCH	MENU	
	S4507	QSW0619-003Z	PUSH SWITCH	POWER	

COMB P.W.BOARD ASS'Y (FX-5020A)

⚠	Symbol No.	Part No.	Part Name	Description	Local
	RESISTOR				
	R5001	NRSA63J-392X	MG R	3.9kΩ 1/16W J	
	R5003	NRSA63J-331X	MG R	330Ω 1/16W J	
	R5004	NRSA63J-101X	MG R	100Ω 1/16W J	
	R5005	NRSA63J-271X	MG R	270Ω 1/16W J	
	R5007-08	NRSA63J-562X	MG R	5.6kΩ 1/16W J	
	R5009	NRSA63J-273X	MG R	27kΩ 1/16W J	
	CAPACITOR				
	C5001	QENC1EM-106Z	BP E CAP.	10μF 25V M	
	C5002	NCB31HK-103X	C CAP.	0.01μF 50V K	
	C5003	QENC1EM-106Z	BP E CAP.	10μF 25V M	
	C5004	NCB31HK-103X	C CAP.	0.01μF 50V K	
	C5005	QETN1EM-476Z	E CAP.	47μF 25V M	
	C5006-07	NCB31HK-103X	C CAP.	0.01μF 50V K	
	C5008	NDC31HJ-6R0X	CHIP C CAPACITOR	6pF 50V J	
	C5009	QETN1HM-475Z	E CAP.	4.7μF 50V M	
	C5010	NCB31HK-102X	C CAP.	1000pF 50V K	
	C5011	NCB31HK-103X	C CAP.	0.01μF 50V K	
	C5012	QETN1EM-476Z	E CAP.	47μF 25V M	
	C5013	NDC31HJ-100X	C CAP.	10pF 50V J	
	C5015	NCB31HK-102X	C CAP.	1000pF 50V K	
	C5016	QETN1HM-106Z	E CAP.	10μF 50V M	
	C5017	NCB31HK-103X	C CAP.	0.01μF 50V K	
	C5018	QETN1EM-476Z	E CAP.	47μF 25V M	
	C5019	QETN1HM-106Z	E CAP.	10μF 50V M	
	C5020	NCB31HK-103X	C CAP.	0.01μF 50V K	
	C5021	QETN1EM-476Z	E CAP.	47μF 25V M	
	C5023	QENC1EM-106Z	BP E CAP.	10μF 25V M	
	COIL				
	L5001-02	NQL011K-4R7X	COIL	4.7μH	
	L5003	NQL011K-100X	COIL	10μH	
	L5004	NQL011K-4R7X	COIL	4.7μH	
	TRANSISTOR				
	Q5001	2SC3773/3-4/-X	SI.TRANSISTOR		
	IC				
	IC5001	NJM2240D	I C		
	IC5002	JLC1562BN	I.C.(DIGI-MOS)		
	IC5003	TC4053BP/N/	I.C.(DIGI-MOS)		
	IC5101	SBX1745-01	IC		
	OTHERS				
		LC30593-001A-C	SHIELD BASE		

TERMINAL P.W.BOARD ASS'Y (FX-6065A)

⚠	Symbol No.	Part No.	Part Name	Description	Local
	RESISTOR				
	R6107	NRSA63J-273X	MG R	27kΩ 1/16W J	
	R6108	NRSA63J-563X	MG R	56kΩ 1/16W J	
	R6109	NRSA63J-101X	MG R	100Ω 1/16W J	
	R6110	NRSA63J-562X	MG R	5.6kΩ 1/16W J	
	R6111	NRSA63J-0R0X	MG R	0.0Ω 1/16W J	
	R6112	NRSA63J-104X	MG R	100kΩ 1/16W J	
	R6113-14	NRSA63J-151X	MG R	150Ω 1/16W J	
	R6115	NRSA63J-223X	MG R	22kΩ 1/16W J	
	R6116	NRSA63J-224X	MG R	220kΩ 1/16W J	
	R6117	NRSA63J-223X	MG R	22kΩ 1/16W J	
	R6118	NRSA63J-224X	MG R	220kΩ 1/16W J	
	R6125-26	NRSA63J-151X	MG R	150Ω 1/16W J	
	R6127	NRSA63J-273X	MG R	27kΩ 1/16W J	
	R6128	NRSA63J-563X	MG R	56kΩ 1/16W J	
	R6129	NRSA63J-101X	MG R	100Ω 1/16W J	
	R6130	NRSA63J-562X	MG R	5.6kΩ 1/16W J	
	R6131	NRSA63J-0R0X	MG R	0.0Ω 1/16W J	
	R6132	NRSA63J-104X	MG R	100kΩ 1/16W J	
	R6133	NRSA63J-223X	MG R	22kΩ 1/16W J	
	R6134-35	NRSA63J-224X	MG R	220kΩ 1/16W J	
	R6136-37	NRSA63J-151X	MG R	150Ω 1/16W J	
	R6140-41	NRSA63J-151X	MG R	150Ω 1/16W J	
	R6144-45	NRSA63J-151X	MG R	150Ω 1/16W J	
	R6148	NRSA63J-223X	MG R	22kΩ 1/16W J	
	R6149	NRSA63J-224X	MG R	220kΩ 1/16W J	
	R6150	NRSA63J-223X	MG R	22kΩ 1/16W J	
	R6151	NRSA63J-224X	MG R	220kΩ 1/16W J	
	R6157	NRSA63J-223X	MG R	22kΩ 1/16W J	
	R6158	NRSA63J-224X	MG R	220kΩ 1/16W J	
	R6159	NRSA63J-223X	MG R	22kΩ 1/16W J	
	R6160	NRSA63J-224X	MG R	220kΩ 1/16W J	
	R6171-72	NRSA63J-103X	MG R	10kΩ 1/16W J	
	R6186	NRSA63J-223X	MG R	22kΩ 1/16W J	
	R6187-94	NRSA63J-151X	MG R	150Ω 1/16W J	
	CAPACITOR				
	C6101-02	QEKC1EM-106Z	E CAP.	10μF 25V M	
	C6104	NCB31HK-103X	C CAP.	0.01μF 50V K	
	C6105	QEKC1CM-107Z	E CAP.	100μF 16V M	
	C6106-13	NCB31HK-472X	C CAP.	4700pF 50V K	
	COIL				
	L6101-08	QQL211K-5R6Y	COIL	5.6μH K	
	DIODE				
	D6101-04	MA111-X	SI.DIODE		
	D6118-19	MA3075/M/-X	ZENER DIODE		
	TRANSISTOR				
	Q6001-02	2SC3773/3-4/-X	SI.TRANSISTOR		
	OTHERS				
	EX6001-04	LC40460-001A	EARTH PLATE		
	FL6101-09	NQR0321-001X	EMI FILTER		
	J6001	QMCC006-C01	DIN CONNECTOR		
	J6002	QNZ0417-001	BNC CONNECTOR		
	J6003	QNN0321-001	PIN JACK		
	J6004	QMCC006-C01	DIN CONNECTOR		
	J6005	QNZ0391-001	BNC CONNECTOR		
	J6006	CEMN054-001	PIN JACK		
	J6007	QNN0321-001	PIN JACK		
	J6008	CEMB010-004	BNC CONNECTOR		
	J6009	QNN0321-001	PIN JACK		
	J6011	QNN0321-001	PIN JACK		

SENSOR P.W.BOARD ASS'Y (FX-7008A)

Δ	Symbol No.	Part No.	Part Name	Description	Local
	RESISTOR				
	R7601	NRSA63J-101X	MG R	100Ω 1/16W	J
	CAPACITOR				
	C7601-09	NCF31CZ-104X	C CAP.	0.1µF 16V	Z
	DIODE				
	D7601	GL3ED8	L.E.D.	POWER	
	D7602	SML-210VT-X	L E D(RED)	LED-A	
	D7603	SML-210VT-X	L E D(RED)	LED-B	
	D7604	SML-210VT-X	L E D(RED)	LED-C	
	IC				
	IC7601	GP1U261X	IFR DETECT UNIT		

INTERFACE P.W.BOARD ASS'Y (FX-7009A)

Δ	Symbol No.	Part No.	Part Name	Description	Local
	RESISTOR				
	R7101-08	NRSA63J-151X	MG R	150Ω 1/16W	J
	R7121-28	NRSA63J-151X	MG R	150Ω 1/16W	J
	R7141-46	NRSA63J-151X	MG R	150Ω 1/16W	J
	R7149-50	NRSA63J-471X	MG R	470Ω 1/16W	J
	R7154-55	NRSA63J-224X	MG R	220kΩ 1/16W	J
	CAPACITOR				
	C7101	QEKC1CM-476Z	E CAP.	47µF 16V	M
	C7102	NCB31HK-103X	C CAP.	0.01µF 50V	K
	C7103-06	QEKC1HM-105Z	E CAP.	1µF 50V	M
	C7108	QEKC1CM-476Z	E CAP.	47µF 16V	M
	C7109	NCB31HK-103X	C CAP.	0.01µF 50V	K
	C7110-13	QEKC1HM-105Z	E CAP.	1µF 50V	M
	C7115-17	QEKC1CM-476Z	E CAP.	47µF 16V	M
	DIODE				
	D7101-16	MA3120/M/-X	ZENER DIODE		
	D7121-36	MA3120/M/-X	ZENER DIODE		
	D7141-43	MA3056/M/-X	ZENER DIODE		
	D7147-48	MA3056/M/-X	ZENER DIODE		
	IC				
	IC7101-03	TC74HC157AF-X	I C		
	IC7105-06	ADM237LJR	I.C.(HYBRID)		
	OTHERS				
	EX7001	LC40460-001A	EARTH PLATE		
	J7001	QNZ0426-001	D CONNECTOR		

AV P.W.BOARD ASS'Y (FX-8011A)

Δ	Symbol No.	Part No.	Part Name	Description	Local
	RESISTOR				
	R8101	NRSA63J-0R0X	MG R	0.0Ω 1/16W	J
	R8103-04	NRSA63J-560X	MG R	56Ω 1/16W	J
	R8107-08	NRSA63J-560X	MG R	56Ω 1/16W	J
	R8109	NRSA63J-223X	MG R	22kΩ 1/16W	J
	R8110	NRSA63J-823X	MG R	82kΩ 1/16W	J
	R8111-12	NRSA63J-560X	MG R	56Ω 1/16W	J
	R8114-15	NRSA63J-103X	MG R	10kΩ 1/16W	J
	R8116	NRSA63J-0R0X	MG R	0.0Ω 1/16W	J
	R8118	NRSA63J-222X	MG R	2.2kΩ 1/16W	J
	R8120	NRSA63J-102X	MG R	1kΩ 1/16W	J
	R8121	NRSA63J-183X	MG R	18kΩ 1/16W	J
	R8122	NRSA63J-471X	MG R	470Ω 1/16W	J
	R8123	NRSA63J-273X	MG R	27kΩ 1/16W	J
	R8124	NRSA63J-561X	MG R	560Ω 1/16W	J
	R8127	NRSA63J-0R0X	MG R	0.0Ω 1/16W	J
	R8129	NRSA63J-222X	MG R	2.2kΩ 1/16W	J
	RESISTOR				
	R8130	NRSA63J-102X	MG R	1kΩ 1/16W	J
	R8131	NRSA63J-183X	MG R	18kΩ 1/16W	J
	R8132	NRSA63J-471X	MG R	470Ω 1/16W	J
	R8133	NRSA63J-273X	MG R	27kΩ 1/16W	J
	R8134	NRSA63J-391X	MG R	390Ω 1/16W	J
	R8137	NRSA63J-0R0X	MG R	0.0Ω 1/16W	J
	R8139	NRSA63J-222X	MG R	2.2kΩ 1/16W	J
	R8140	NRSA63J-472X	MG R	4.7kΩ 1/16W	J
	R8141-46	NRSA63J-152X	MG R	1.5kΩ 1/16W	J
	R8147	NRSA63J-332X	MG R	3.3kΩ 1/16W	J
	R8150	NRSA63J-123X	MG R	12kΩ 1/16W	J
	R8151	NRSA63J-273X	MG R	27kΩ 1/16W	J
	R8152	NRSA63J-102X	MG R	1kΩ 1/16W	J
	R8153	NRSA63J-104X	MG R	100kΩ 1/16W	J
	R8154	NRSA63J-223X	MG R	22kΩ 1/16W	J
	R8155	NRSA63J-333X	MG R	33kΩ 1/16W	J
	R8156	NRSA63J-473X	MG R	47kΩ 1/16W	J
	R8157-60	NRSA63J-222X	MG R	2.2kΩ 1/16W	J
	R8161	NRSA63J-183X	MG R	18kΩ 1/16W	J
	R8163	NRSA63J-0R0X	MG R	0.0Ω 1/16W	J
	R8164	NRSA63J-683X	MG R	68kΩ 1/16W	J
	R8165-66	NRSA63J-223X	MG R	22kΩ 1/16W	J
	R8167	NRSA63J-333X	MG R	33kΩ 1/16W	J
	R8168	NRSA63J-123X	MG R	12kΩ 1/16W	J
	R8169	NRSA63J-563X	MG R	56kΩ 1/16W	J
	R8170	NRSA63J-223X	MG R	22kΩ 1/16W	J
	R8171	NRSA63J-333X	MG R	33kΩ 1/16W	J
	R8172	NRSA63J-472X	MG R	4.7kΩ 1/16W	J
	R8173	NRSA63J-683X	MG R	68kΩ 1/16W	J
	R8174	NRSA63J-224X	MG R	220kΩ 1/16W	J
	R8175	NRSA63J-472X	MG R	4.7kΩ 1/16W	J
	R8176	NRSA63J-183X	MG R	18kΩ 1/16W	J
	R8177	NRSA63J-103X	MG R	10kΩ 1/16W	J
	R8178	NRSA63J-472X	MG R	4.7kΩ 1/16W	J
	R8179-82	NRSA63J-100X	MG R	10Ω 1/16W	J
	R8184	NRSA63J-100X	MG R	10Ω 1/16W	J
	R8185	NRSA63J-472X	MG R	4.7kΩ 1/16W	J
	R8186	NRSA63J-0R0X	MG R	0.0Ω 1/16W	J
	R8187	NRSA63J-472X	MG R	4.7kΩ 1/16W	J
	R8188	NRSA63J-393X	MG R	39kΩ 1/16W	J
	R8189	NRSA63J-223X	MG R	22kΩ 1/16W	J
	R8190	NRSA63J-101X	MG R	100Ω 1/16W	J
	R8191	NRSA63J-221X	MG R	220Ω 1/16W	J
	R8193-94	NRSA63J-560X	MG R	56Ω 1/16W	J
	R8195-98	NRSA63J-103X	MG R	10kΩ 1/16W	J
	R8199	NRSA63J-102X	MG R	1kΩ 1/16W	J
	R8200	NRSA63J-0R0X	MG R	0.0Ω 1/16W	J
	R8201	NRSA63J-222X	MG R	2.2kΩ 1/16W	J
	R8202	NRSA63J-102X	MG R	1kΩ 1/16W	J
	R8203	NRSA63J-0R0X	MG R	0.0Ω 1/16W	J
	R8204	NRSA63J-222X	MG R	2.2kΩ 1/16W	J
	R8205	NRSA63J-102X	MG R	1kΩ 1/16W	J
	R8206	NRSA63J-0R0X	MG R	0.0Ω 1/16W	J
	R8207	NRSA63J-222X	MG R	2.2kΩ 1/16W	J
	R8208-11	NRSA63J-103X	MG R	10kΩ 1/16W	J
	R8212-14	NRSA63J-123X	MG R	12kΩ 1/16W	J
	R8215	NRSA63J-392X	MG R	3.9kΩ 1/16W	J
	R8216	NRSA63J-222X	MG R	2.2kΩ 1/16W	J
	R8217-18	NRSA63J-103X	MG R	10kΩ 1/16W	J
	R8219	NRSA63J-471X	MG R	470Ω 1/16W	J
	R8220	NRSA63J-560X	MG R	56Ω 1/16W	J
	R8221	NRSA63J-471X	MG R	470Ω 1/16W	J
	R8222	NRSA63J-560X	MG R	56Ω 1/16W	J
	R8223	NRSA63J-471X	MG R	470Ω 1/16W	J
	R8224	NRSA63J-560X	MG R	56Ω 1/16W	J
	R8225-27	NRSA63J-102X	MG R	1kΩ 1/16W	J
	R8228-29	NRSA63J-472X	MG R	4.7kΩ 1/16W	J
	R8230	NRSA63J-103X	MG R	10kΩ 1/16W	J
	R8232	NRSA63J-103X	MG R	10kΩ 1/16W	J
	R8234-35	NRSA63J-103X	MG R	10kΩ 1/16W	J
	R8237-38	NRSA63J-560X	MG R	56Ω 1/16W	J
	R8239	NRSA63J-222X	MG R	2.2kΩ 1/16W	J

RESISTOR

⚠	Symbol No.	Part No.	Part Name	Description	Local
	R8241	NRSA63J-103X	MG R	10kΩ 1/16W	J
	R8243	NRSA63J-103X	MG R	10kΩ 1/16W	J
	R8246	NRSA63J-103X	MG R	10kΩ 1/16W	J
	R8247-48	NRSA63J-560X	MG R	56Ω 1/16W	J
	R8249	NRSA63J-472X	MG R	4.7kΩ 1/16W	J
	R8250-51	NRSA63J-273X	MG R	27kΩ 1/16W	J
	R8252	NRSA63J-222X	MG R	2.2kΩ 1/16W	J
	R8254-55	NRSA63J-273X	MG R	27kΩ 1/16W	J
	R8256	NRSA63J-222X	MG R	2.2kΩ 1/16W	J
	R8258-59	NRSA63J-273X	MG R	27kΩ 1/16W	J
	R8260	NRSA63J-222X	MG R	2.2kΩ 1/16W	J
	R8262	NRSA63J-822X	MG R	8.2kΩ 1/16W	J
	R8263-64	NRSA63J-272X	MG R	2.7kΩ 1/16W	J
	R8265	NRSA63J-182X	MG R	1.8kΩ 1/16W	J
	R8266	NRSA63J-272X	MG R	2.7kΩ 1/16W	J
	R8267	NRSA63J-332X	MG R	3.3kΩ 1/16W	J
	R8268	NRSA63J-152X	MG R	1.5kΩ 1/16W	J
	R8279	NRSA63J-102X	MG R	1kΩ 1/16W	J
	R8280	NRSA63J-101X	MG R	100Ω 1/16W	J
	R8282	NRSA63J-0R0X	MG R	0.0Ω 1/16W	J
	R8283	NRSA63J-104X	MG R	100kΩ 1/16W	J
	R8284	NRSA63J-224X	MG R	220kΩ 1/16W	J
	R8290-92	NRSA63J-0R0X	MG R	0.0Ω 1/16W	J
	R8295	NRSA63J-222X	MG R	2.2kΩ 1/16W	J
	R8296	NRSA63J-183X	MG R	18kΩ 1/16W	J
	R8297	NRSA63J-472X	MG R	4.7kΩ 1/16W	J
	R8298	NRSA63J-332X	MG R	3.3kΩ 1/16W	J
	R8299	NRSA63J-472X	MG R	4.7kΩ 1/16W	J
	R8300	NRSA63J-472X	MG R	4.7kΩ 1/16W	J
	R8301	NRSA63J-102X	MG R	1kΩ 1/16W	J
	R8302-04	NRSA63J-472X	MG R	4.7kΩ 1/16W	J
	R8306	NRSA63J-473X	MG R	47kΩ 1/16W	J
	R8307-08	NRSA63J-560X	MG R	56Ω 1/16W	J
	R8309	NRSA63J-223X	MG R	22kΩ 1/16W	J
	R8310	NRSA63J-562X	MG R	5.6kΩ 1/16W	J
	R8311	NRSA63J-104X	MG R	100kΩ 1/16W	J
	R8312	NRSA63J-684X	MG R	680kΩ 1/16W	J
	R8313	NRSA63J-223X	MG R	22kΩ 1/16W	J
	R8314-15	NRSA63J-103X	MG R	10kΩ 1/16W	J
	R8316	NRSA63J-102X	MG R	1kΩ 1/16W	J
	R8317-18	NRSA63J-223X	MG R	22kΩ 1/16W	J
	R8319	NRSA63J-0R0X	MG R	0.0Ω 1/16W	J
	R8320	NRSA63J-472X	MG R	4.7kΩ 1/16W	J
	R8321	NRSA63J-183X	MG R	18kΩ 1/16W	J
	R8322	NRSA63J-103X	MG R	10kΩ 1/16W	J
	R8323-34	NRSA63J-332X	MG R	3.3kΩ 1/16W	J
	R8335-36	QRE141J-0R0Y	C R	0.0Ω 1/4W	J
	R8401-02	NRSA63J-273X	MG R	27kΩ 1/16W	J
	R8403	NRSA63J-222X	MG R	2.2kΩ 1/16W	J
	R8404-05	NRSA63J-273X	MG R	27kΩ 1/16W	J
	R8406	NRSA63J-222X	MG R	2.2kΩ 1/16W	J
	R8407-08	NRSA63J-273X	MG R	27kΩ 1/16W	J
	R8409	NRSA63J-222X	MG R	2.2kΩ 1/16W	J
	R8410-12	NRSA63J-101X	MG R	100Ω 1/16W	J
	R8501-02	NRSA63J-273X	MG R	27kΩ 1/16W	J
	R8503	NRSA63J-222X	MG R	2.2kΩ 1/16W	J
	R8504-05	NRSA63J-273X	MG R	27kΩ 1/16W	J
	R8506	NRSA63J-222X	MG R	2.2kΩ 1/16W	J
	R8507-08	NRSA63J-273X	MG R	27kΩ 1/16W	J
	R8509	NRSA63J-222X	MG R	2.2kΩ 1/16W	J
	R8510-11	NRSA63J-273X	MG R	27kΩ 1/16W	J
	R8512	NRSA63J-222X	MG R	2.2kΩ 1/16W	J
	R8513-14	NRSA63J-273X	MG R	27kΩ 1/16W	J
	R8515	NRSA63J-222X	MG R	2.2kΩ 1/16W	J
	R8516-17	NRSA63J-273X	MG R	27kΩ 1/16W	J
	R8518	NRSA63J-222X	MG R	2.2kΩ 1/16W	J
	R8519-24	NRSA63J-151X	MG R	150Ω 1/16W	J
	R8525-26	NRSA63J-471X	MG R	470Ω 1/16W	J
	R8547-48	NRSA63J-472X	MG R	4.7kΩ 1/16W	J
	R8549	NRSA63J-332X	MG R	3.3kΩ 1/16W	J
	R8550	NRSA63J-0R0X	MG R	0.0Ω 1/16W	J
	R8551	NRSA63J-332X	MG R	3.3kΩ 1/16W	J

RESISTOR

⚠	Symbol No.	Part No.	Part Name	Description	Local
	R8552	NRSA63J-222X	MG R	2.2kΩ 1/16W	J
	R8553	NRSA63J-153X	MG R	15kΩ 1/16W	J
	R8554	NRSA63J-332X	MG R	3.3kΩ 1/16W	J
	R8555	NRSA63J-0R0X	MG R	0.0Ω 1/16W	J
	R8556-58	NRSA63J-221X	MG R	220Ω 1/16W	J
	R8559-61	NRSA63J-101X	MG R	100Ω 1/16W	J

CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description	Local
	C8104	NEN51EM-106X	CHIP AL BP E CAP	10μF 25V	M
	C8105-06	NEH71CM-106X	E CAP.	10μF 16V	M
	C8107-08	NEH71HM-105X	E CAP.	1μF 50V	M
	C8109	NEN51EM-106X	CHIP AL BP E CAP	10μF 25V	M
	C8110-11	NEH71CM-106X	E CAP.	10μF 16V	M
	C8112-13	NEH71HM-105X	E CAP.	1μF 50V	M
	C8119-22	NEH71HM-105X	E CAP.	1μF 50V	M
	C8124	NEH71EM-226X	E CAP.	22μF 25V	M
	C8125	NCB31HK-103X	C CAP.	0.01μF 50V	K
	C8126	NEH71CM-476X	E CAP.	47μF 16V	M
	C8131	NEH71CM-476X	E CAP.	47μF 16V	M
	C8132	NCB31HK-103X	C CAP.	0.01μF 50V	K
	C8133-34	NEN51EM-106X	CHIP AL BP E CAP	10μF 25V	M
	C8135	NCB31HK-103X	C CAP.	0.01μF 50V	K
	C8136	NCF31CZ-104X	C CAP.	0.1μF 16V	Z
	C8137	NCB31HK-472X	C CAP.	4700pF 50V	K
	C8138	NCF31CZ-474X	C CAP.	0.47μF 16V	Z
	C8140	NCF31CZ-104X	C CAP.	0.1μF 16V	Z
	C8141	NCB31HK-472X	C CAP.	4700pF 50V	K
	C8142	NCF31CZ-104X	C CAP.	0.1μF 16V	Z
	C8143-44	NDC31HJ-7R0X	C CAP.	7.0pF 50V	J
	C8145-49	NCF31CZ-104X	C CAP.	0.1μF 16V	Z
	C8150	NCB31HK-103X	C CAP.	0.01μF 50V	K
	C8151	NEH71CM-476X	E CAP.	47μF 16V	M
	C8152-55	NCF31CZ-104X	C CAP.	0.1μF 16V	Z
	C8156	NCB31HK-103X	C CAP.	0.01μF 50V	K
	C8157	NEH71CM-476X	E CAP.	47μF 16V	M
	C8158	NCB31HK-103X	C CAP.	0.01μF 50V	K
	C8159	NEH71CM-476X	E CAP.	47μF 16V	M
	C8160	NCB31HK-103X	C CAP.	0.01μF 50V	K
	C8161	NEH71CM-476X	E CAP.	47μF 16V	M
	C8162	NCB31HK-103X	C CAP.	0.01μF 50V	K
	C8163	NEH71CM-476X	E CAP.	47μF 16V	M
	C8164	NDC31HJ-560X	C CAP.	56pF 50V	J
	C8165-67	NEN51CM-475X	CHIP AL BP E CAP	4.7μF 16V	M
	C8168	NCF31CZ-104X	C CAP.	0.1μF 16V	Z
	C8170	NEH71HM-475X	E CAP.	4.7μF 50V	M
	C8171-72	NCF31CZ-104X	C CAP.	0.1μF 16V	Z
	C8173	NEH71HM-105X	E CAP.	1μF 50V	M
	C8174-75	NEH71HM-475X	E CAP.	4.7μF 50V	M
	C8176	NCB31HK-472X	C CAP.	4700pF 50V	K
	C8177	NCF31CZ-104X	C CAP.	0.1μF 16V	Z
	C8178	NEH71CM-106X	E CAP.	10μF 16V	M
	C8179	NCB31HK-103X	C CAP.	0.01μF 50V	K
	C8180-82	NCF31CZ-104X	C CAP.	0.1μF 16V	Z
	C8183	NDC31HJ-101X	C CAP.	100pF 50V	J
	C8184	NCB31HK-103X	C CAP.	0.01μF 50V	K
	C8185	NEH71CM-476X	E CAP.	47μF 16V	M
	C8186	NDC31HJ-100X	C CAP.	10pF 50V	J
	C8187	NDC31HJ-101X	C CAP..	100pF 50V	J
	C8188	NEH71CM-476X	E CAP.	47μF 16V	M
	C8189	NCB31HK-103X	C CAP.	0.01μF 50V	K
	C8190-91	NCF31CZ-104X	C CAP.	0.1μF 16V	Z
	C8192	NDC31HJ-561X	C CAP.	560pF 50V	J
	C8193	NDC31HJ-681X	CHIP C CAPACITOR	680pF 50V	J
	C8194	NCF31CZ-104X	C CAP.	0.1μF 16V	Z
	C8195	NDC31HJ-330X	C CAP.	33pF 50V	J
	C8196	NCB31HK-272X	CHIP CAP.	2700pF 50V	K
	C8197	NCF31CZ-104X	C CAP.	0.1μF 16V	Z
	C8199	NCF31CZ-104X	C CAP.	0.1μF 16V	Z
	C8200	NCF31CZ-104X	C CAP.	0.1μF 16V	Z
	C8201-03	NEN51HM-105X	CHIP AL BP E CAP	1μF 50V	M
	C8204	NEH71CM-476X	E CAP.	47μF 16V	M
	C8205	NCB31HK-103X	C CAP.	0.01μF 50V	K
	C8206	NEH71CM-476X	E CAP.	47μF 16V	M

CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description	Local
	C8207	NCB31HK-103X	C CAP.	0.01µF 50V	K
	C8208	NEH71HM-105X	E CAP.	1µF 50V	M
	C8209	NEH71HM-105X	E CAP.	1µF 50V	M
	C8210	NEH71HM-105X	E CAP.	1µF 50V	M
	C8211-14	NEH71HM-475X	E CAP.	4.7µF 50V	M
	C8215	NEH71HM-225X	E CAP.	2.2µF 50V	M
	C8216	NEH71HM-475X	E CAP.	4.7µF 50V	M
	C8217	NEH71HM-105X	E CAP.	1µF 50V	M
	C8218	NCB31HK-103X	C CAP.	0.01µF 50V	K
	C8219	NCB31HK-472X	C CAP.	4700pF 50V	K
	C8220	NCF31CZ-104X	C CAP.	0.1µF 16V	Z
	C8221-22	NCF31CZ-104X	C CAP.	0.1µF 16V	Z
	C8223-28	NEN51HM-105X	CHIP AL BP E CAP	1µF 50V	M
	C8229	NEH71CM-476X	E CAP.	47µF 16V	M
	C8230-31	NCB31HK-103X	C CAP.	0.01µF 50V	K
	C8232	NEH71CM-476X	E CAP.	47µF 16V	M
	C8233	NCB31HK-103X	C CAP.	0.01µF 50V	K
	C8240-41	NCF31CZ-104X	C CAP.	0.1µF 16V	Z
	C8243	NCF31CZ-104X	C CAP.	0.1µF 16V	Z
	C8244	NEH71HM-106X	E CAP.	10µF 50V	M
	C8245-46	NDC31HJ-150X	C CAP.	15pF 50V	J
	C8247-48	NDC31HJ-7R0X	C CAP.	7.0pF 50V	J
	C8249	NCF31CZ-104X	C CAP.	0.1µF 16V	Z
	C8270	NEH71HM-475X	E CAP.	4.7µF 50V	M
	C8271-72	NEH71HM-475X	E CAP.	4.7µF 50V	M
	C8280	NEN51AM-106X	CHIP AL BP E CAP	10µF 10V	M
	C8281-82	NEH71HM-105X	E CAP.	1µF 50V	M
	C8285	NCF31CZ-104X	C CAP.	0.1µF 16V	Z
	C8286	NEH71EM-226X	E CAP.	22µF 25V	M
	C8287	NCF31CZ-104X	C CAP.	0.1µF 16V	Z
	C8288-92	NEH71CM-476X	E CAP.	47µF 16V	M
	C8293-94	NCF31CZ-104X	C CAP.	0.1µF 16V	Z
	C8295	NEH71CM-476X	E CAP.	47µF 16V	M
	C8296	NCF31CZ-104X	C CAP.	0.1µF 16V	Z
	C8297	NEH71EM-226X	E CAP.	22µF 25V	M
	C8298-99	NCF31CZ-104X	C CAP.	0.1µF 16V	Z
	C8300	NEH71CM-476X	E CAP.	47µF 16V	M
	C8301	NCF31CZ-104X	C CAP.	0.1µF 16V	Z
	C8302	NEH71CM-476X	E CAP.	47µF 16V	M
	C8303	NEH71EM-226X	E CAP.	22µF 25V	M
	C8310-11	NDC31HJ-330X	C CAP.	33pF 50V	J
	C8314	NEH71CM-476X	E CAP.	47µF 16V	M
	C8315	NCB31HK-103X	C CAP.	0.01µF 50V	K
	C8316	NCB31HK-102X	C CAP.	1000pF 50V	K
	C8317	NEH71CM-476X	E CAP.	47µF 16V	M
	C8318	NCB31HK-103X	C CAP.	0.01µF 50V	K
	C8319	NDC31HJ-101X	C CAP.	100pF 50V	J
	C8320	NEH71CM-476X	E CAP.	47µF 16V	M
	C8321	NCB31HK-103X	C CAP.	0.01µF 50V	K
	C8322	NDC31HJ-220X	C CAP.	22pF 50V	J
	C8323	NEN51HM-474X	CHIP AL BP E CAP	0.47µF 50V	M
	C8324	NCB31HK-153X	C CAP.	0.015µF 50V	K
	C8325	NCB31HK-103X	C CAP.	0.01µF 50V	K
	C8326	NCF31CZ-104X	C CAP.	0.1µF 16V	Z
	C8327-28	NEN51CM-475X	CHIP AL BP E CAP	4.7µF 16V	M
	C8329	NCB31HK-562X	CHIP CAP.	5600pF 50V	K
	C8330	NCB31HK-682X	CHIP CAP.	6800pF 50V	K
	C8331	NCB31HK-472X	C CAP.	4700pF 50V	K
	C8332	NDC31HJ-100X	C CAP.	10pF 50V	J
	C8333	NDC31HJ-330X	C CAP.	33pF 50V	J
	C8334	NDC31HJ-220X	C CAP.	22pF 50V	J
	C8335	NDC31HJ-680X	C CAP.	68pF 50V	J
	C8336	NDC31HJ-470X	C CAP.	47pF 50V	J
	C8337	NDC31HJ-680X	C CAP.	68pF 50V	J
	C8338	NDC31HJ-470X	C CAP.	47pF 50V	J
	C8339	NDC31HJ-330X	C CAP.	33pF 50V	J
	C8340	NDC31HJ-680X	C CAP.	68pF 50V	J
	C8341	NDC31HJ-5R0X	C CAP.	5.0pF 50V	J
	C8342-43	NDC31HJ-100X	C CAP.	10pF 50V	J
	C8501-06	NEH71HM-475X	E CAP.	4.7µF 50V	M
	C8507-08	NEH71CM-476X	E CAP.	47µF 16V	M
	C8509-10	NCB31HK-103X	C CAP.	0.01µF 50V	K

CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description	Local
	C8514-15	NEH71HM-105X	E CAP.	1µF 50V	M
	C8516	NCF31CZ-104X	C CAP.	0.1µF 16V	Z

COIL

⚠	Symbol No.	Part No.	Part Name	Description	Local
	L8102-03	NQL011K-2R2X	COIL	2.2µH	
	L8106-14	NQL011K-2R2X	COIL	2.2µH	

DIODE

⚠	Symbol No.	Part No.	Part Name	Description	Local
	D8102-03	MA111-X	SI.DIODE		
	D8106-17	MA3082/M/-X	ZENER DIODE		
	D8118-21	MA111-X	SI.DIODE		
	D8401-06	MA111-X	SI.DIODE		
	D8501-03	MA3120/M/-X	ZENER DIODE		
	D8504-05	MA3056/M/-X	ZENER DIODE		
	D8506-11	MA111-X	SI.DIODE		

TRANSISTOR

⚠	Symbol No.	Part No.	Part Name	Description	Local
	Q8101-02	2SC2778/C/-X	SI.TRANSISTOR		
	Q8104-06	2SC2778/C/-X	SI.TRANSISTOR		
	Q8108-10	2SC2778/C/-X	SI.TRANSISTOR		
	Q8111	2SA1022/BC/-X	SI.TRANSISTOR		
	Q8112	2SC2778/C/-X	SI.TRANSISTOR		
	Q8113-14	2SC2412K/QR/-X	SI.TRANSISTOR		
	Q8115-17	2SA1022/BC/-X	SI.TRANSISTOR		
	Q8118-20	2SC2778/C/-X	SI.TRANSISTOR		
	Q8121-24	2SC2412K/QR/-X	SI.TRANSISTOR		
	Q8125	2SA1022/BC/-X	SI.TRANSISTOR		
	Q8126	2SC2412K/QR/-X	SI.TRANSISTOR		
	Q8128	DTC124EKA-X	DIGI.TRANSISTOR		
	Q8129-30	2SA1022/BC/-X	SI.TRANSISTOR		
	Q8131-33	2SC2412K/QR/-X	SI.TRANSISTOR		
	Q8134-35	2SA1022/BC/-X	SI.TRANSISTOR		
	Q8501-06	2SC2412K/QR/-X	SI.TRANSISTOR		
	Q8507-09	2SA1022/BC/-X	SI.TRANSISTOR		

IC

⚠	Symbol No.	Part No.	Part Name	Description	Local
	IC8101	CXA1845Q	I.C.(MONO-ANA)		
	IC8102	TDA9143/N3	I.C.(MONO-ANA)		
	IC8103	TDA4665	I.C.(MONO-ANA)		
	IC8104	TC4053BF/N/-XE	I.C.(DIGI-MOS)		
	IC8105	M52346SP	I.C.(MONO-ANA)		
	IC8106	GS4982-X	I C		
	IC8107	TC7W74F-X	I.C.(ECL-LOGIC)		
	IC8108	TC74HC4538AF-X	I.C.(DIGI-MOS)		
	IC8109	TC4538BF/N/-XE	I.C.(DIGI-MOS)		
	IC8110	TC4053BF/N/-XE	I.C.(DIGI-MOS)		
	IC8111	TC74AC540F-X	I C		
	IC8112	TC7W04F-X	I.C.(DIGI-MOS)		
	IC8113	AN5392FBQ	I.C.(MONO-ANA)		
	IC8114-15	AN5862S-W	I.C.(MONO-ANA)		
	IC8116	JLC1563M-X	I.C.(DIGI-MOS)		
	IC8117-18	JLC1562BF-X	I.C.(DIGI-MOS)		
	IC8119	TC7W74F-X	I.C.(ECL-LOGIC)		
	IC8121	BA08FP-X	I C		
	IC8122	BA09FP-X	I C		
	IC8123	BA05FP-X	I.C.(MONO-ANA)		
	IC8124	BA033FP-X	I.C.(MONO-ANA)		
	IC8125	PQ12TZ5U-X	I C		
	IC8126	TA78L09F-W	I C		
	IC8127	TC4538BF/N/-XE	I.C.(DIGI-MOS)		
	IC8128	TC4053BF/N/-XE	I.C.(DIGI-MOS)		
	IC8129	MSM5258RS	I.C.(DIGI-MOS)		
	IC8130	DS1621S-X	I C		
	IC8131-32	AN5862S-W	I.C.(MONO-ANA)		
	IC8134	TC4053BF/N/-XE	I.C.(DIGI-MOS)		
	IC8135	BA12FP-X	I.C.(MONO-ANA)		

OTHERS

⚠	Symbol No.	Part No.	Part Name	Description	Local
⚠	CP8001	ICP-N75-Y	I.C.PROTECT		
	FL8501-05	NQR0169-001X	EMI FILTER		
	J8001	CHD105W-15S-J	D SUB 15S		
	X8101	CE40749-001	CRYSTAL		
	X8102-03	CE40668-001	CRYSTAL		

AUDIO P.W.BOARD ASS'Y (FX-8013A)

⚠	Symbol No.	Part No.	Part Name	Description	Local
	RESISTOR				
	R8651	NRSA63J-104X	MG R	100kΩ 1/16W	J
	R8652	NRSA63J-333X	MG R	33kΩ 1/16W	J
	R8653	NRSA63J-472X	MG R	4.7kΩ 1/16W	J
	R8654	NRSA63J-103X	MG R	10kΩ 1/16W	J
	R8655	NRSA63J-105X	MG R	1MΩ 1/16W	J
	R8656-59	NRSA63J-221X	MG R	220Ω 1/16W	J
	R8660-61	QRE122J-2R2	C R	2.2Ω 1/2W	J
	R8662	NRSA63J-103X	MG R	10kΩ 1/16W	J
	R8663-64	NRSA63J-682X	MG R	6.8kΩ 1/16W	J
	R8665-66	NRSA63J-102X	MG R	1kΩ 1/16W	J
	R8668	NRSA63J-103X	MG R	10kΩ 1/16W	J
	R8673	NRSA63J-103X	MG R	10kΩ 1/16W	J
	R8674-75	NRSA63J-473X	MG R	47kΩ 1/16W	J
	R8680	NRSA63J-100X	MG R	10Ω 1/16W	J
	R8681-82	NRSA63J-223X	MG R	22kΩ 1/16W	J
	R8683-84	NRSA63J-104X	MG R	100kΩ 1/16W	J
	R8801-03	QRZ0096-1R5	UNF.WW.RESISTOR		
	R8804	NRSA63J-103X	MG R	10kΩ 1/16W	J
	R8805	NRSA63J-224X	MG R	220kΩ 1/16W	J
	R8807-08	NRSA63J-473X	MG R	47kΩ 1/16W	J
	CAPACITOR				
	C8631	QETM1CM-477	E CAP.	470μF 16V	M
	C8632	NCF31CZ-104X	C CAP.	0.1μF 16V	Z
	C8633-34	NEN51CM-475X	CHIP AL BP E CAP	4.7μF 16V	M
	C8635-36	NCF31CZ-104X	C CAP.	0.1μF 16V	Z
	C8637-38	NCB31HK-472X	C CAP.	4700pF 50V	K
	C8639	NEH71CM-476X	E CAP.	47μF 16V	M
	C8640	NEH71HM-475X	E CAP.	4.7μF 50V	M
	C8641	NCF31CZ-104X	C CAP.	0.1μF 16V	Z
	C8642-43	NEH71HM-475X	E CAP.	4.7μF 50V	M
	C8644	NEN51CM-475X	CHIP AL BP E CAP	4.7μF 16V	M
	C8645	NEH71CM-106X	E CAP.	10μF 16V	M
	C8646	NCF31CZ-104X	C CAP.	0.1μF 16V	Z
	C8647	NEN51CM-475X	CHIP AL BP E CAP	4.7μF 16V	M
	C8648-49	NEH71HM-475X	E CAP.	4.7μF 50V	M
	C8651	QETM1EM-108	E CAP.	1000μF 25V	M
	C8652	NCB31HK-103X	C CAP.	0.01μF 50V	K
	C8653-54	NEH71HM-475X	E CAP.	4.7μF 50V	M
	C8655	NEH71CM-476X	E CAP.	47μF 16V	M
	C8656	NCF31CZ-224X	CHIP C CAPACITOR	0.22μF 16V	Z
	C8657	NEH71CM-476X	E CAP.	47μF 16V	M
	C8658	NCF31CZ-224X	CHIP C CAPACITOR	0.22μF 16V	Z
	C8659-60	NCF31CZ-104X	C CAP.	0.1μF 16V	Z
	C8661-62	QTMN1EM-477Z	E CAPACITOR	470μF 25V	M
	C8664-65	NEN51CM-475X	CHIP AL BP E CAP	4.7μF 16V	M
	C8666-67	NEH71CM-476X	E CAP.	47μF 16V	M
	C8670-71	NEN51CM-475X	CHIP AL BP E CAP	4.7μF 16V	M
	C8672-73	NCF31CZ-224X	CHIP C CAPACITOR	0.22μF 16V	Z
	C8801	QETM1CM-228	E CAP.	2200μF 16V	M
	C8802	QETM1EM-108	E CAP.	1000μF 25V	M
	C8803	QETM1CM-108	E CAP.	1000μF 16V	M
	C8804	QETM1EM-108	E CAP.	1000μF 25V	M
	C8805	QETM1CM-108	E CAP.	1000μF 16V	M
	COIL				
	L8615	NQL011K-2R2X	COIL	2.2μH	
	L8801-02	QQL42AM-5R6Z	COIL	5.6μH	M
	DIODE				
	D8601-03	MA111-X	SI.DIODE		
	D8604	MA3051/M/-X	ZENER DIODE		
	D8606-07	MA111-X	SI.DIODE		
	D8608-09	MA3220/M/-X	ZENER DIODE		

⚠	Symbol No.	Part No.	Part Name	Description	Local
	DIODE				
	D8610	MA111-X	SI.DIODE		
	TRANSISTOR				
	Q8622	2SA1022/BC/-X	SI.TRANSISTOR		
	Q8624	DTC124EKA-X	DIGI.TRANSISTOR		
	Q8626-27	DTC124EKA-X	DIGI.TRANSISTOR		
	IC				
	IC8619	CXA2021S	I C		
	IC8621	TA8200AH	I.C.(MONO-ANA)		
	IC8801	BP5020	I C		

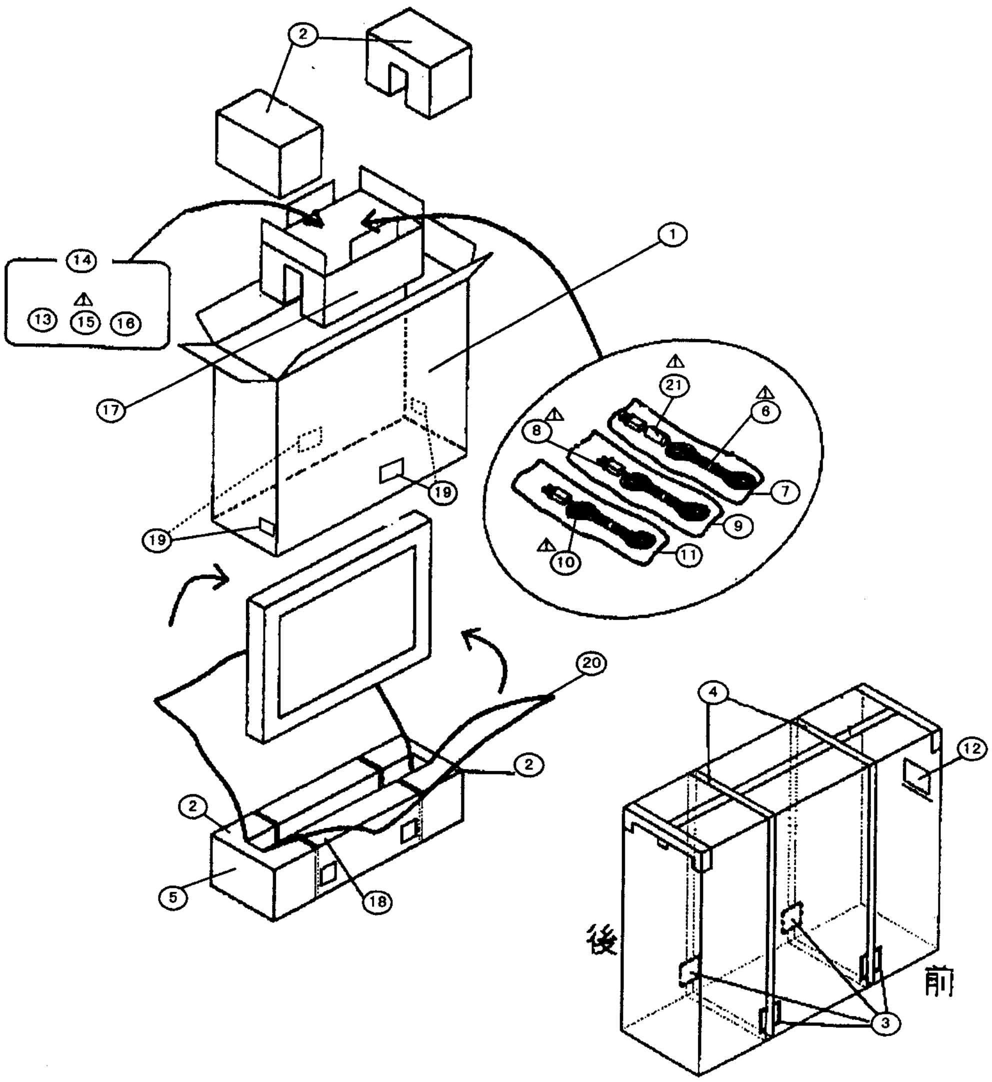
REMOTE P.W.BOARD ASS'Y (FX-8014A)

⚠	Symbol No.	Part No.	Part Name	Description	Local
	RESISTOR				
	R8721-22	NRSA63J-103X	MG R	10kΩ 1/16W	J
	R8723-24	NRSA63J-104X	MG R	100kΩ 1/16W	J
	R8725	NRSA63J-103X	MG R	10kΩ 1/16W	J
	CAPACITOR				
	C8702-03	NEH71CM-476X	E CAP.	47μF 16V	M
	C8706-09	NCB31HK-103X	C CAP.	0.01μF 50V	K
	C8803	NCB31HK-103X	C CAP.	0.01μF 50V	K
	C8805-06	NCB31HK-103X	C CAP.	0.01μF 50V	K
	COIL				
	L8801-04	QQL402K-4R7	COIL	4.7μH	
	L8805-06	QQL402K-100	COIL	10μH	K
	DIODE				
	D8701-02	MA3056/M/-X	ZENER DIODE		
	D8705	MA3056/M/-X	ZENER DIODE		
	D8803-10	MA111-X	SI.DIODE		
	OTHERS				
	FL8701-02	NQR0321-002X	EMI FILTER		
⚠	FR8801	QRZ9021-1R8	FUSI.RESISTOR		
⚠	FR8802	QRZ9021-1R8	FUSI.RESISTOR		
	J8701	QMS3005-C01	3.5 JACK	WIRED-INPUT	
	J8702	QMS3005-C01	3.5 JACK	WIRED-OUTPUT	
	J8801	CEMT005-002	EXT SP TERMINAL		
	S8801	QSW0836-001	SLIDE SWITCH	INT/EXT	

FILTER P.W.BOARD ASS'Y (FX-9063A)

⚠	Symbol No.	Part No.	Part Name	Description	Local
	CAPACITOR				
⚠	C9903	QFZ9040-105	M.M.CAPACITOR		
	OTHERS				
		A49593	CONNECTOR CLIP	x2	
⚠	F9901	QMFZ041-100-J1	FUSE		
⚠	LF9901	QQR1025-001	LINE FILTER		
⚠	LF9902	QQR1025-001	LINE FILTER		
⚠	LF9903	QQR0810-001	LINE FILTER		

PACKING



PACKING PARTS LIST

⚠	Ref.No.	Part No.	Part Name	Description	Local
	1	LC20255-001B	TOP CARTON		
	2	LC10346-001B	CUSHION ASSY		
	3	CP30903-001	JOINT	×4	
	4	CP30371-00E	BAND	×2	
	5	LC20254-001B	BOTTOM CARTON		
⚠	6	QMPE100-250-K	POWER CORD		
	7	QPGA012-03005	POLY BAG		
⚠	8	QMPL050-250-K	POWER CORD		
	9	QPGA012-03005	POLY BAG		
⚠	10	QMPP070-250-K	POWER CORD		
	11	QPGA012-03005	POLY BAG		
	12	CM47385-00A	POS/SERIAL LABEL		
	13	RM-C575-1	RC HAND PIECE		
	14	CP30975-001	POLY BAG		
⚠	15	LCT0318-001A	INST BOOK		
	16	CH44097-00A	CONNECTOR ASSY		
	17	LC20513-001A	SUB CUSHION (T)		
	18	LC20514-001A	SUB CUSHION (B)		
	19	LC40661-001A	CARTON LABEL	×4 GD-V4200PZW-G ONLY	
	20	QPE18018005	POLY SHEET		
⚠	21	QQR0491-001	FILTER		